UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2019 Budget Estimates
February 2018


Air Force
Justification Book Volume 1 of 1
Procurement of Ammunition, Air Force

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UNCLASSIFIEDAir Force • Budget Estimates FY 2019 • Procurement
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## Appropriation Language <br> Fiscal Year (FY) 2019 Budget Estimates Procurement of Ammunition, Air Force

For construction, procurement, production, and modification of ammunition and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by section 2854 of title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; other expenses necessary for the foregoing purposes, and overseas contingency operations, $\$ 3,008,820,000$ to remain available for obligation until September 30, 2021.

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget

Total Obligational Authority
01 Feb 2018
(Dollars in Thousands)

Appropriation: Procurement of Ammunition, Air Force

| Budget Activity | $\begin{gathered} \text { FY } 2017 \\ \text { (Base + OCO) } \end{gathered}$ | FY 2018 <br> PB Request with CR Adj Base | FY 2018 Total <br> PB Requests* with CR Adj Base | FY 2018 <br> PB Request <br> with CR Adj <br> OCO |
| :---: | :---: | :---: | :---: | :---: |
| 01. Ammunition | 2,097,688 | 1,347,991 | 1,347,991 | 501,509 |
| 02. Weapons | 37,459 | 28,611 | 28,611 |  |
| 20. Undistributed |  | 201,825 | 201,825 | 43,399 |
| Total Procurement of Ammunition, Air Force | 2,135,147 | 1,578,427 | 1,578,427 | 544,908 |

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: Procurement of Ammunition, Air Force
FY 2018
Total
PB Requests+
with CR Adj
OCO
---------
501,509
43,399

FY 2018
Less Enacted Div B
P.L.115-96*** MDDE + Ship Repairs

$$
\text { FY } 2018
$$

FY 2018 Remaining Req Emergency

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> Department of the Air Force
> FY 2019 President's Budget
> Exhibit P-1 FY 2019 President's Budget
> Total Obligational Authority

Budget Activity

1. Ammunition
2. Weapons
3. Undistributed

Total Procurement of Ammunition, Air Force
FY 2018 FY 2018

Total
PB Requests*
with CR Adj
Base + OCO +
Emergency**

## $1,849,500$

28,611
245,224
2,123,335
FY 2018 Less Enacted DIV B
P.L.115-96*** MDDE + Ship Repairs

$1,849,500$
28,611
245,224
2,123,335

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority

$1,522,802$
64,502
$1,587,304$

$1,421,516$

FY 2019
Total
$2,935,818$
73,002
$3,008,820$

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget

Total Obligational Authority
(Dollars in Thousands)

01 Feb 2018


A

A
254,507

A
A

| 77,686 |  | 28,509 |
| :---: | :---: | :---: |
| 569,482 |  | 329,501 |
| 3,600 |  | 38,382 |
| 682,114 | 10330 | 319,525 |
|  | 30 | $(77,068)$ |

11,239
$(11,239)$

147,454

161,744

28,509
329,501
38,382
10330
30
(77,068)
77,068

11,239
$(11,239)$

Advance Procurement (CY)
C (FY 2018 for FY 2019) (M)
C (FY 2019 for FY 2020) (M)
Other Items
9 Cad/Pad
49.050 U
$11,384 \mathrm{U}$

U

16990 390,577

$$
\begin{equation*}
\mathrm{U} \tag{U}
\end{equation*}
$$

$$
-
$$

| 10 Explosive Ordnance Disposal (EOD) | A | 5,714 | 5,921 | 5,921 |
| :---: | :---: | :---: | :---: | :---: |
| 11 Spares And Repair Parts | A | 740 | 678 | 678 |

P-119PB: FY 2019 President's Budget (Published Version), as of February 1, 2018 at 12:17:25

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> Department of the Air Force
> FY 2019 President's Budget
> Exhibit P-1 FY 2019 President's Budget
> Total Obligational Authority

01 Feb 2018
(Dollars in Thousands)

FY 2018
Less Enacted Div B
P.L.115-96***

MDDE + Ship
Repairs
Quantity Cost

FY 2018

Remaining Req S Emergency e | Emergency |  | $e$ |
| :---: | :---: | :---: |
| Quantity | Cost | c |

Budget Activity 01: Ammunition
-------------------
Rockets
1 Rockets
A
49,050
Cartridges
2 Cartridges
A
11,384
FY 2018 Emergency Requests** Emergency

| Ident $\quad$ OCO |  |
| :--- | :--- |
| Code | Quantity | Quantity Cost -------- ----

## Bombs

3 Practice Bombs
A
A
4 General Purpose Bombs
5 Massive Ordnance Penetrator (MOP)
A $16990 \quad 390,577$
6 Joint Direct Attack Munition

Less: Advance Procurement (PY)

8 B61
Advance Procurement (CY)
C (FY 2018 for FY 2019) (M)
C (FY 2019 for FY 2020) (M)
Other Items
9 Cad/Pad

## UNCLASSIFIED

10 Explosive Ordnance Disposal (EOD) A
A
11 Spares And Repair Parts A

P-119PB: FY 2019 President's Budget (Published Version), as of February 1, 2018 at 12:17:25

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> Department of the Air Force
> FY 2019 President's Budget
> Exhibit P-1 FY 2019 President's Budget
> Total Obligational Authority
Appropriation: 3011F Procurement of Ammunition, Air Force

| Line |  |
| :--- | :--- |
| No | Item Nomenclature |
| ---- | ---------------1 |

Budget Activity 01: Ammunition

## Rockets

1 Rockets
Cartridges
2 Cartridges
Bombs
3 Practice Bombs
4 General Purpose Bombs
5 Massive Ordnance Penetrator (MOP)
6 Joint Direct Attack Munition
7 B61
Less: Advance Procurement (PY)

## 8 B61

Advance Procurement (CY)
C (FY 2018 for FY 2019) (M)
C (FY 2019 for FY 2020) (M)
Other Items
$9 \mathrm{Cad} / \mathrm{Pad}$
A
53,469

FY 2018
Less Enacted
DIV B
P.L.115-96*** MDDE + Ship Repairs
Quantity Cost
Ident
Code
-uantity

A

A
173,128


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10 Explosive Ordnance Disposal (EOD)
A
5,921
$5,921 \mathrm{U}$
11 Spares And Repair Parts
A
678
678 U

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority

| Line |  |
| :--- | :--- |
| No | Item Nomenclature |
| ---- | ---------------1 |

Budget Activity 01: Ammunition

## Rockets

1 Rockets
Cartridges
2 Cartridges
Bombs
3 Practice Bombs
4 General Purpose Bombs
5 Massive Ordnance Penetrator (MOP)
6 Joint Direct Attack Munition
7 B61
Less: Advance Procurement (PY)

8 B61
Advance Procurement (CY)
C (FY 2018 for FY 2019) (M)
C (FY 2019 for FY 2020) (M)
Other Items
$9 \mathrm{Cad} / \mathrm{Pad}$
A
51,455
163,840

7899
250
$(120,531)$
$(-11,239)$
---------

109,292

52,731
$(52,731)$

$$
\begin{array}{cccc}
\text { FY 2019 } & \text { FY } 2019 & \text { S } \\
\text { OCO } & & \text { Total } & \text { e } \\
\text { Quantity } & \text { Cost } & \text { Quantity } & \text { Cost } \\
\text { Qu------- }
\end{array}
$$

29,587
193,427 U
$52,731 \mathrm{U}$
$(52,731)$
$51,455 \mathrm{U}$

| 10 Explosive Ordnance Disposal (EOD) | A | 6,038 |
| :--- | :--- | :---: | :---: |
| 11 Spares And Repair Parts | A | 524 |

P-119PB: FY 2019 President's Budget (Published Version), as of February 1, 2018 at 12:17:25
524 U

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Department of the Air Force
FY 2019 President's Budget Exhibit P-1 FY 2019 President's Budget

Total Obligational Authority
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3011F Procurement of Ammunition, Air Force


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> Department of the Air Force
> FY 2019 President's Budget
> Exhibit P-1 FY 2019 President's Budget
> Total Obligational Authority
> (Dollars in Thousands)

01 Feb 2018

FY 2018
Less Enacted Div B
P.L.115-96***

MDDE + Ship
Repairs
Quantity Cost

13 Items Less Than \$5,000,000 A

## Total Weapons

Budget Activity 20: Undistributed

Undistributed
18 Adj to Match Continuing Resolution
Total Undistributed
Total Procurement of Ammunition, Air Force

FY 2018

Remaining Req $S$ Emergency e | Emergency |  | $e$ |
| :---: | :---: | :---: |
| Quantity | Cost | c |

$\qquad$
$\qquad$
$\qquad$

43,399

FY 2018 Emergency Emergency Quantity Cost


$$
\begin{aligned}
& \text { c } \\
& -
\end{aligned}
$$

A

$\qquad$

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## Department of the Air Force

FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority

## Line <br> No Item Nomenclature

12 Modifications

13 Items Less Than $\$ 5,000,000$
14 Cancelled Account Adjustment
Flares
15 Flares
Fuzes
16 Fuzes
Total Ammunition
Budget Activity 02: Weapons
---------------------
Small Arms
17 Small Arms
Total Weapons
Budget Activity 20: Undistributed

Undistributed
18 Adj to Match Continuing Resolution
Total Undistributed
Total Procurement of Ammunition, Air Force


FY 2018
with CR Adj
Base + oco +
Emergency e
c
, 409 U
U

U

U

U
1,849,500

28,611
------
28,611

$$
\begin{gathered}
245,224 \\
-------- \\
245,224 \\
--------123,335
\end{gathered}
$$

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Department of the Air Force
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority

| Line | Ident | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ |  | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ |  | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ |  | e |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | code | Quantity | Cost | Quantity | Cost | Quantity | Cost | C |
| 12 Modifications | A |  | 1,270 |  |  |  | 1,270 | U |
| 13 Items Less Than \$5,000,000 | A |  | 4,604 |  |  |  | 4,604 | U |
| 14 Cancelled Account Adjustment |  |  |  |  |  |  |  | U |
| Flares |  |  |  |  |  |  |  |  |
| 15 Flares | A |  | 125,286 |  | 12,116 |  | 137,402 | U |
| Fuzes |  |  |  |  |  |  |  |  |
| 16 Fuzes | A |  | 109,358 |  | 81,000 |  | 190,358 | U |
| Total Ammunition |  |  | 522,802 |  | 13,016 |  | 935,818 |  |
| Budget Activity 02: Weapons |  |  |  |  |  |  |  |  |
| Small Arms |  |  |  |  |  |  |  |  |
| 17 Small Arms | A |  | 64,502 |  | 8,500 |  | 73,002 | U |
| Total Weapons |  |  | 64,502 |  | 8,500 |  | 73,002 |  |
| Budget Activity 20: Undistributed |  |  |  |  |  |  |  |  |
| Undistributed |  |  |  |  |  |  |  |  |
| 18 Adj to Match Continuing Resolution | A |  |  |  |  |  |  | U |
| Total Undistributed |  |  |  |  |  |  |  |  |
| Total Procurement of Ammunition, Air Force |  |  | 587,304 |  | 21,516 |  | 008,820 |  |
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## UNCLASSIFIED <br> Air Force • Budget Estimates FY 2019 • Procurement

## Line Item Table of Contents (by Appropriation then Line Number)

Appropriation 3011F: Procurement of Ammunition, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 01 | 11 | 351010 | Rockets. | Volume 1-1 |
| 2 | 01 | 12 | 352010 | Cartridges... | .....Volume 1-11 |
| 3 | 01 | 13 | 353010 | Practice Bombs. | ..Volume 1-41 |
| 4 | 01 | 13 | 353020 | General Purpose Bombs.... | ...Volume 1-49 |
| 5 | 01 | 13 | 353190 | Massive Ordnance Penetrator (MOP). | ..Volume 1-67 |
| 6 | 01 | 13 | 353620 | Joint Direct Attack Munition.. | ...Volume 1-71 |
| 7 | 01 | 13 | 354040 | B61.. | .....Volume 1-81 |
| 8 | 01 | 13 | 354040 | B61, Advance Procurement.. | .....Volume 1-89 |
| 9 | 01 | 15 | 355100 | Cad/Pad. | .. Volume 1-93 |
| 10 | 01 | 15 | 355450 | Explosive Ordnance Disposal (EOD)... | .....Volume 1-97 |
| 11 | 01 | 15 | 355900 | Spares And Repair Parts. | ...Volume 1-101 |
| 12 | 01 | 15 | 355970 | Modifications... | .. Volume 1-103 |
| 13 | 01 | 15 | 355990 | Items Less Than \$5,000,000.. | ... Volume 1-105 |
| 15 | 01 | 16 | 356010 | Flares.. | .. Volume 1-107 |
| 16 | 01 | 18 | 356120 | Fuzes... | ...Volume 1-123 |

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## Air Force • Budget Estimates FY 2019 • Procurement

Appropriation 3011F: Procurement of Ammunition, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title |
| :--- | :--- | :--- | :--- | :--- |
| 17 | 02 | 01 | 357010 | Small Arms............................................................................................................Volume 1 - 137 |

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| B61 | 354040 | 7 | 01 | 13... | ...Volume 1-81 |
| B61, Advance Procurement | 354040 | 8 | 01 |  | Volume 1-89 |
| Cad/Pad | 355100 | 9 | 01 |  | Volume 1-93 |
| Cartridges | 352010 | 2 | 01 | 12. | Volume 1-11 |
| Explosive Ordnance Disposal (EOD) | 355450 | 10 | 01 | 15. | Volume 1-97 |
| Flares | 356010 | 15 | 01 |  | .Volume 1-107 |
| Fuzes | 356120 | 16 | 01 | 18... | Volume 1-123 |
| General Purpose Bombs | 353020 | 4 | 01 |  | Volume 1-49 |
| Items Less Than \$5,000,000 | 355990 | 13 | 01 | 15. | Volume 1-105 |
| Joint Direct Attack Munition | 353620 | 6 | 01 | 13. | ...Volume 1-71 |
| Massive Ordnance Penetrator (MOP) | 353190 | 5 | 01 | 13... | ...Volume 1-67 |
| Modifications | 355970 | 12 | 01 | 15. | .Volume 1-103 |
| Practice Bombs | 353010 | 3 | 01 | 13... | ... Volume 1-41 |
| Rockets | 351010 | 1 | 01 | 11. | .....Volume 1-1 |
| Small Arms | 357010 | 17 | 02 | 01... | . Volume 1-137 |
| Spares And Repair Parts | 355900 | 11 | 01 | 15. | .Volume 1-101 |

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## ACRONYMS

| GENERAL ACRONYMS |  |
| :--- | :--- |
| A\&AS | - Advisory \& Assistance Services |
| ABIDES | - Automated Budget Interactive Data Environment System |
| ACAT | - Acquisition Category |
| ACTD | - Advanced Concept Technology Demonstration |
| AGM | - Air-to-Ground Missile |
| AIM | - Air Intercept Missile |
| AIS | - Avionics Intermediate Shop |
| ACMI | - Aircraft Combat Maneuvering Instrumentation |
| AMRAAM | - Advanced Medium-Range Air-to-Air Missile |
| APPN | - Appropriation |
| ATD | - Advanced Technology Development |
| BA | - Budget Activity |
| BLSS | - Base Level Self-Sufficiency Spares |
| BY | - Comget Year |
| C3 | - Contractor Furnished Equipment |
| CFE | - Concept of Operation |
| CONOPS | - Continental United States |
| CONUS | - Comprehensive Power Management System |
| CPMS | - Cockpit Procedures Trainer |
| CPT | - Continuing Resolution Authority |
| CRA | - Countermeasures Test Set |
| CTS | - Current Year |
| CY | - Electronic Counter Counter-Measures |
| ECCM | - Electronic Counter Measures |
| ECM | - Engineering Change Orders |
| ECO | - Economic Order Quantity |
| EOQ | - Engineering Change Proposal |
| ECP | - Economic Price Adjustment |
| EPA | - Electronic Warfare |
| EW | - Electronic Warfare Avionics Integration Support Facility |
| EWAISP | - Forward Looking Infra Red |
| FLIR |  |
|  |  |


| FOT\&E | - Follow-on Test and Evaluation |
| :--- | :--- |
| FOC | - Fully Operational Capability |
| FLTS | - Flight Line Test Set |
| FPIF | - Fixed Price Incentive Firm |
| FPIS | - Fixed Price Incentive Fee, Successive Targets |
| FY | - Fiscal Year |
| GANS | - Global Access Navigation \& Safety |
| GATM | - Gobal Air Traffic Management |
| GFE | - Government Furnished Equipment |
| GFP | - Government Furnished Property |
| GPS | - Global Positioning System |
| GSE | - Ground Support Equipment |
| ICS | - Interim Contractor Support |
| IOC | - Incrial Operating Capability |
| IPE | - Joint Precision Appronceach and Landing System |
| JPALS | - Major Automated Information System Program |
| MAIS | - Major Defense Acquisition Program |
| MDAP | - Mobile Electronic Test Stations |
| METS | - Multiyear Procurement |
| MYP | - Multi-Stage Improvement Program |
| MSIP | - Navigation Warfare |
| NAVWAR | - Not Mission Capable Rate |
| NMC Rate | - Operational Flight Program |
| OFP | - Operational Test and Evaluation |
| OT\&E | - Other War Reserve Material |
| OWRM | - Priced Aerospace Ground Equipment List |
| PAGEL | - President's Budget |
| PB | - Peculiar Ground Support Equipment |
| PGSE | - Program Management Administration |
| PMA | - Procurement Method Code |
| PMC | - Acquisition Program Number (MDAP Codes) |
| PNO | - Purchase Request |
| PR | - Program Resource Collection Process |
| PRCP | - Part Task Trainer |
| PTT | - Prior Year |
| PY |  |

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| R\&M | - Reliability and Maintainability |
| :--- | :--- |
| RAA | - Required Asset Availability |
| RDT\&E | - Research, Development, Test and Evaluation |
| RWR | - Radar Warning Receiver |
| ROM | - Rough Order of Magnitude |
| SS | - Sole Source |
| SOF | - Special Operation Force |
| TAF | - Tactical Air Force |
| TCAS | - Traffic Collision Alert and Avoidance System |
| TEWS | - Tactical Electronic Warfare System |
| TISS | - TowS Intermediate Support System |
| TOA | - Worligation Authority |
| WCF | - War Reservital Fund |
| WRM | - Weapon System Trainer |
| WST | - Unmanned Aerial Vehicle |
| UAV | - Extensible Markup Language |
| XML |  |

## BASE / ORGANIZATIONAL ACRONYMNS

| ACC | - Air Combat Command |
| :--- | :--- |
| AETC | - Air Education \& Training Command |
| AFCAO | - Air Force Computer Acquisition Office |
| AFCESA | - Air Force Civil Engineering Support Agency |
| AFCIC | - AF Communications \& Information Center |
| AFCSC | - Air Force Cryptologic Service Center |
| AFESC | - Air Force Engineering Services Center |
| AFGWC | - Air Force Global Weather Central |
| AFIT | - Air Force Institute of Technology |
| AFLCMC | - Air Force Life Cycle Management Center |
| AFMC | - Air Force Materiel Command |
| AFMETCAL | - Air Force Metrology and Calibration Office |
| AFMLO | - Air Force Medical Logistics Office |
| AFOSI | - Air Force Office of Special Investigation |
| AFOTEC | - Air Force Operational Test \& Evaluation Center |
| AFPC | - Air Force Personnel Center |


| AFPSL | - AF Primary Standards Lab |
| :--- | :--- |
| AFR | - Air Force Reserve |
| AFSOC | - AF Special Operations Command |
| AFSPC | - Air Force Space Command |
| AIA | - Air Intelligence Agency |
| ALC | - Air Logistics Center |
| AMC | - Air Mobility Command |
| ANG | - Air National Guard |
| ASC | - Aeronautical Systems Center |
| AETC | - Air Education Training Command |
| AU | - Air Weathersity |
| AWS | - Central Intelligence |
| CIA | - Defense General Support Center |
| DGSC | - Defense Logistics Center |
| DLA | - Department of Energy |
| DOE | - Defense Personnel Support Center |
| DPSC | - Defense Supply Center, Columbus |
| DSCC | - Defense Technical Information Center |
| DTIC | - Eastern Range |
| ER | - Electronic Systems Center |
| ESC | - Federal Aviation Agency |
| FAA | - Federal Bureau of Investigation |
| FBI | - General Services Administration |
| GSA | - Joint Chiefs of Staff |
| JCS | - North Atlantic Treaty Organization |
| NATO | - Office of the Secretary of Defense |
| OSD | - Pacific Air Forces |
| PACAF | - United States Air Force |
| USAF | - United States Air Force Academy |
| USAFA | - United States Air Force Europe |
| USAFE | - United States Central Command |
| USCENTCOM | - United States European Command |
| USEUCOM | - United States Marine Corps |
| USMC | - United States Strategic Command |
| USSTRATCOM | - Wright-Patterson AFB, OH |
| WP AFB |  |

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| CONTRACT METHOD / TYPE ACRONYMNS |  |
| :--- | :--- |
| C | - Competitive |
| BA | - Basic Agreement |
| BOA | - Basic Ordering Agreement |
| BPA | - Blanket Purchasing Agreement |
| CS | - Cost Sharing |
| IDDQ | - Indefinite Delivery, Definite Quantity |
| IDIQ | - Indefinite Delivery, Indefinite Quantity |
| IDRT | - Indefinite Delivery, Requirements |
| Letter | - Letter |
| LH | - Labor-hour |
| MIPR | - Military Interdepartmental Purchase Request |
| MIPR-C | - Military Interdepartmental Purchase Request - Competitive |
| MIPR-OPT | - Military Interdepartmental Purchase Request - Option |
| MIPR-OTH | - Military Interdepartmental Purchase Request - Other |
| MPR-SS | - Military Interdepartmental Purchase Request - Sole Source |
| OPT | - Option |
| OTH | - Other |
| PO | - Project Order |
| REQN | - Requisition |
| SS | - Sole Source |
| T\&M | - Time and Materials |
| UCA | - Undefinitized Contract Action |
| WP | - Work Project |

## CONTRACTED BY ACRONYMNS

| 11 WING | - 11th Support Wing, Washington, DC |
| :--- | :--- |
| ACC | - Air Combat Command, Langley AFB, VA |
| AEDC | - Arnold Engineering Development Center, Arnold AFB, TN |
| AAC | - Air Armament Center, Eglin AFB, FL |
| AEDC | - Arnold Engineering Development Center, Arnold AFB, TN |
| AETC | - Air Education and Training Command, Randolph AFB, TX |
| AFCIC | - Air Force Communications and Information Center, Washington, DC |
| AFCESA | - Air Force Civil Engineering Support Agency, Tyndall AFB, FL |
| AFFTC | - Air Force Flight Test Center, Edwards AFB, CA |

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| AFLCMC | - Air Force Life Cycle Management Center, Wright-Patterson AFB, OH |
| :--- | :--- |
| AFMC | - Air Force Materiel Command, Wright-Patterson AFB, OH |
| AFMETCAL | - Air Force Metrology and Calibration Office, Heath, Ohio |
| AFMLO | - Air Force Medical Logistics Office, Ft Detrick, MD |
| AIA | - Air Intelligence Agency, Kelly AFB, TX |
| AMC | - Air Mobility Command, Scott AFB, IL |
| ASC | - Aeronautical Systems Center, Wright-Patterson AFB, OH \& Eglin AFB, FL |
| AFWA | - Air Force Weather Agency, Offutt AFB, NE |
| DGSC | - Defense General Support Center, Richmond, VA |
| DPSC | - Easense Personnel Support Center, Philadelphia, PA |
| ER | - Electronic Systems Center, Hanscom AFB, MA |
| ESC | - Human Services Center, Brook AFB, TX |
| HSC | - Oklahoma City Air Logistics Center, Tinker AFB, OK |
| OC-ALC | - Ogden Air Logistics Center, Hill AFB, UT |
| OO-ALC | - Space \& Missile Systems Center, Los Angeles AFB, CA |
| SMC | - US Strategic Command, Offutt AFB, NE |
| US STRATCOM | - Washington Area Contracting Center, Washington DC |
| WACC | - Warner-Robins Air Logistics Center, Robins AFB, GA |
| WR | - Air Force Space Command, Peterson AFB, CO |
| WR-ALC | - Headquarters, Air National Guard, Washington, DC |
| AFSPC | - United States Air Force Europe, Ramstein AB, GE |
| HQ ANG | - United States Air Force Academy, Colorado Springs, CO |
| USAFE | - Standard Systems Group, Maxwell AFB-Gunter Annex, AL |
| USAFA |  |

## IDENTIFICATION CODES

Code "A"

- Line items of material which have been approved for Air Force service use

Code "B"

- Line items of material that have not been approved for Service use

OBAN

- Operating Budget Account Number, 2-digit code for unit allocated funds

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## P-1 Line Item Number / Title:

351010 / Rockets

## 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11:

 Rockets| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ents for Cod | B Items: N |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 78.734 | 196.504 | 345.911 | - | 345.911 | 153.828 | 84.658 | 129.014 | 129.014 | - | 1,117.663 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 78.734 | 196.504 | 345.911 | - | 345.911 | 153.828 | 84.658 | 129.014 | 129.014 | - | 1,117.663 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 78.734 | 196.504 | 345.911 | - | 345.911 | 153.828 | 84.658 | 129.014 | 129.014 | - | 1,117.663 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

PY2018 funding totals include $\$ 49.050 \mathrm{M}$ requested for Overseas Contingency Operations.
The Air Force uses the 2.75 inch diameter rockets system to support various missions from low collateral damage guided high explosive warhead missions to target marking and battle field illumination missions and can be employed from both high and low speed aircraft.



 Arsenal, Alabama, and Department of the Navy PMA-242 at Patuxent River Naval Air Station.

- The WP Warhead (H855) provides forward air control aircraft with target locations from a standoff distance in a hostile environment.

 APKWS II rockets. The extended length launchers are designed to accommodate the guidance and control section within the launcher.
 MK66 rocket motor launched from an LAU-131 A/A or an LAU-68 F/A rocket launcher.

 and penetrator warheads.

| Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force | Date: February 2018 |
| :--- | :--- |


| Appropriation / Budget Activity / Budget Sub Activity: |  |
| :--- | :--- |
| 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: P-1 Line Item Number / Title: <br> Rockets  | 351010 / Rockets |

Rockets
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

## Line Item MDAP/MAIS Code: N/A


 reduced collateral damage, and increased standoff range to enhance crew survivability.


 responses, and providing military support to civil authorities.

Funding for this exhibit is contained in PE 0207599F and PE 0208030F.


Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | (H855) WHD 2.75 RKT SMK M156 PD M427 | P-5a | A |  | 1 | / 5.939 | - 18.000 | - / 10.290 | 1 | - / 10.290 |
| P-40a | (HA06) WARHEAD, 2.75 ILLUM |  |  |  | 1 | - 19.359 | - 18.000 | - 15.000 | - 1 - | - 15.000 |
| P-5 | APKWS | P-5a | A |  | 1 | - 160.000 | - / 180.504 | - 1325.621 | - 1 - | - 1325.621 |
| P-40a | ROCKETS (ITEMS LESS THAN \$5 MILLION) |  |  |  | - 1 - | - 13.436 | - 1 - | - 15.000 | - 1 - | - 15.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 178.734 | - / 196.504 | - 1345.911 | - 1 - | - / 345.911 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

FY2019 Purchase of rockets, launchers, warheads, and guidance sections to constitute the APKWS II all-up-round (AUR), and other marking and illuminating warheads for the 2.75 inch rockets, as well as launchers. The AUR is launched from reusable pods (launchers) carried on aircraft pylons and Triple Ejection Racks (TER).

The Air Force procures munitions to maintain appropriate operational quantity levels, as well as War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements.


## Remarks:

Unit prices are provided by the Joint Attack Munitions Systems (JAMS) Program Office, Dept of Army. Prices shown represent the efforts to produce items for the DoD Military Services and other customers purchasing the same or similar items, and to provide technical support and surveillance of the Air Force order.

Unit price variances among current and prior fiscal years are due to the total customer orders per ordering period. Costs, including overhead and production engineering are developed using a total volume matrix, with high, medium and low total quantity ranges. Other cost drivers include complex or scarce materials such as white phosphorous.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F/01/11 |  |  |  | P-1 Line Item Number / Title: 351010 / Rockets |  |  |  | Item Number / Title [DODIC]: (H855) WHD 2.75 RKT SMK M156 PD M427 |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 2.75 WARHEAD WP SMOKE H855 |  | 2017 | GENERAL DYNAMICS / REDSTONE ARSENAL | MIPR | Redstone Arsenal, AL | Jun 2017 | Jun 2018 | 13,821 | 0.000 | Y |  |  |
| 2.75 WARHEAD WP SMOKE H855 |  | 2018 | GENERAL DYNAMICS / REDSTONE ARSENAL | MIPR | Redstone Arsenal, AL | Jun 2018 | Jun 2019 | 17,600 | 0.000 | Y |  |  |
| 2.75 WARHEAD WP SMOKE - H855 |  | 2019 | GENERAL DYNAMICS I REDSTONE ARSENAL | MIPR | Redstone Arsenal, AL | Jun 2019 | Jun 2020 | 17,498 | 0.001 | Y |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 351010 / Rockets |  |  |  |  |  |  | Aggregated Items Title: (HA06) WARHEAD, 2.75 ILLUM |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (HA06) WARHEAD, 2.75 ILLUM | A |  | - | - | - | 0.003 | 3,689 | 9.359 | ${ }^{0.003}$ | 2,905 | 8.000 | ${ }^{0.003}$ | 1,714 | 5.000 | - | - | - | 0.003 | 1,714 | 5.000 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 9.359 | - | - | 8.000 | - | - | 5.000 | - | - | - | - | - | 5.000 |
| Total |  |  | - | - | - | $\cdot$ | - | 9.359 | - | $\cdot$ | 8.000 | - | - | 5.000 | - | - | - | - | - | 5.000 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3011F / 01 / 11

P-1 Line Item Number / Title: 351010 / Rockets

Date: February 2018
Item Number / Title [DODIC]:
APKWS

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 60.000 | 180.504 | 325.621 | - | 325.621 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 60.000 | 180.504 | 325.621 | - | 325.621 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 60.000 | 180.504 | 325.621 | - | 325.621 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| Hardware - Advanced Precision Kill Weapon System (APKWS) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Guidance Section ${ }^{(\dagger)}$ | - | - | - | 0.011 | 4,500 | 51.237 | 0.023 | 7,279 | 167.599 | 0.025 | 7,279 | 183.461 | - | - | - | 0.025 | 7,279 | 183.461 |
| (HA07) ROCKET MOTOR MK-66 | - | - | - | 0.000 | 1,000 | 0.495 | - | - | - | 0.001 | 182,109 | 111.968 | - | - | - | 0.001 | 182,109 | 111.968 |
| (HA91) LAU-131A/ A ROCKET LAUNCHER ${ }^{(+)}$ | - | - | - | 0.019 | 100 | 1.900 | 0.015 | 146 | 2.165 | 0.012 | 402 | 4.800 | - | - | - | 0.012 | 402 | 4.800 |
| Warhead M151 ${ }^{(+)}$ | - | - | - | 0.001 | 875 | 1.309 | 0.001 | 1,822 | 1.940 | 0.000 | 17,059 | 5.000 | - | - | - | 0.000 | 17,059 | 5.000 |
| Warhead M282 ${ }^{(+)}$ | - | - | - | 0.004 | 875 | 3.079 | 0.005 | 1,820 | 8.443 | 0.003 | 2,583 | 8.022 | - | - | - | 0.003 | 2,583 | 8.022 |
| WGU-59 Single Variant Development | - | - | - | - | - | - | - | - | - | - | - | 11.000 | - | - | - | - | - | 11.000 |
| Rocket Launcher <br> Tester (AN/USM-715) | - | - | - | - | - | - | - | - | - | 0.015 | 67 | 1.020 | - | - | - | 0.015 | 67 | 1.020 |
| Subtotal: Recurring Cost | - | - | - | - | - | 58.020 | - | - | 180.148 | - | - | 325.271 | - | - | - | - | - | 325.271 |
| Subtotal: Hardware - <br> Advanced Precision Kill <br> Weapon System (APKWS) <br> Cost | - | - | - | - | - | 58.020 | - | - | 180.148 | - | - | 325.271 | - | - | - | - | - | 325.271 |
| Support - APKWS Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production Support | - | - | - | - | - | 1.980 | - | - | 0.356 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| Subtotal: Support - APKWS Cost | - | - | - | - | - | 1.980 | - | - | 0.356 | - | - | 0.350 | - | - | - | - | - | 0.350 |

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$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11 |  |  |  | P-1 Line Item Number / Title: 351010 / Rockets |  |  |  | Item Number / Title [DODIC]: APKWS |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Guidance Section |  | 2017 | BAE / Nashua, NH | SS/FFP | NAVAIR | Apr 2017 | Dec 2017 | 4,500 | 0.011 | Y |  |  |
| Guidance Section |  | 2018 | BAE / Nashua, NH | SS/FFP | NAVAIR | Apr 2018 | Dec 2018 | 7,279 | 0.023 | Y |  |  |
| Guidance Section |  | 2019 | BAE / Nashua, NH | SS/FFP | NAVAIR | Apr 2019 | Apr 2020 | 7,279 | 0.025 | Y |  |  |
| (HA91) LAU-131A/A ROCKET LAUNCHER |  | 2017 | Arnold Defense / St. Louis, MO | SS/FFP | TBD | Jun 2017 | Jun 2018 | 100 | 0.019 | Y |  |  |
| (HA91) LAU-131A/A ROCKET LAUNCHER |  | 2018 | Arnold Defense / St. Louis. MO | SS/FFP | NAVAIR | Jun 2018 | Jun 2019 | 146 | 0.015 | Y |  |  |
| (HA91) LAU-131A/A ROCKET LAUNCHER |  | 2019 | Arnold Defense / St. Louis, MO | SS/FFP | NAVAIR | Jun 2019 | Jun 2020 | 402 | 0.012 | Y |  |  |
| Warhead M151 |  | 2017 | General Dynamics / Burlington, VT | C/FFP | Redstone Arsenal, AL | Apr 2017 | Apr 2018 | 875 | 0.001 | Y |  |  |
| Warhead M151 |  | 2018 | General Dynamics / Burlington, VT | C/FFP | Redstone Arsenal, AL | Apr 2018 | Apr 2019 | 1,822 | 0.001 | Y |  |  |
| Warhead M151 |  | 2019 | General Dynamics / Burlington, VT | C/FFP | Redstone Arsenal, AL | Apr 2019 | Apr 2020 | 17,059 | 0.000 | Y |  |  |
| Warhead M282 |  | 2017 | General Dynamics / Burlington, VT | C/FFP | Redstone Arsenal, AL | Apr 2017 | Apr 2018 | 875 | 0.004 | Y |  |  |
| Warhead M282 |  | 2018 | NAMMO / Raufoss, Norway | C/FFP | TBD | Apr 2018 | Apr 2019 | 1,820 | 0.005 | Y |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 351010 / Rockets |  |  |  |  |  |  |  | Aggregated Items Title: <br> ROCKETS (ITEMS LESS THAN \$5 <br> MILLION) |  |  |  |  |
|  |  |  |  | ior Yea |  |  | Y 2017 |  |  | Y 2018 |  |  | 2019 Bas |  |  | 2019 O |  |  | 2019 Tot |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (H812) WHD ILLUM M257 | A |  | - |  | - | - | - | - | - | - | - | 0.003 | 1,748 | 5.000 | - | - | - | 0.003 | 1,748 | 5.000 |
| (H149) LAUNCHER LAU-131A F/2.75 | A |  | - | - | - | 0.011 | ${ }^{323}$ | 3.436 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 3.436 | - | - | - | - | - | 5.000 | - | - | - | - | $\cdot$ | 5.000 |
| Total |  |  | - | - | - | - | - | 3.436 | $\cdot$ | $\cdot$ | - | $\cdot$ | $\cdot$ | 5.000 | - | - | - | $\cdot$ | - | 5.000 |

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12:

 Cartridges| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 254.507 | 173.128 | 163.840 | 29.587 | 193.427 | 159.668 | 148.967 | 157.780 | 154.672 | - | 1,242.149 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 254.507 | 173.128 | 163.840 | 29.587 | 193.427 | 159.668 | 148.967 | 157.780 | 154.672 | - | 1,242.149 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 254.507 | 173.128 | 163.840 | 29.587 | 193.427 | 159.668 | 148.967 | 157.780 | 154.672 | - | 1,242.149 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

PY2017 funding includes $\$ 9.830 \mathrm{M}$ appropriated for Overseas Contingency Operations.
CY2018 funding includes $\$ 11.384 \mathrm{M}$ appropriated for Oversees Contingency Operations.

The following Weapon System Cost Elements are represented in this P-1 line:
 Ammunition (SMCA), Department of the Army
 combat round used to limit collateral damage potential. Air Force procures 25MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.
 Both the Air Force and Navy use this ammunition for combat only. Air Force procures 20MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.


 Ammunition (SMCA), Department of the Army and engineering support from the Navy.
 through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: <br> Cartridges |
| :--- | :--- |
| 352010 / Cartridges |  |



## Line Item MDAP/MAIS Code: N/A


 rifles. The Air Force procures this item through the Navy.
 Conventional Ammunition (SMCA), Department of the Army.
 Air Force procures 30MM from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

 Ammunition (SMCA), Department of the Army.
 initiated impulse cartridge consisting of a center pin which is glass to metal sealed inside a cylindrical aluminum casing which is crimped over a scored metal closure on the output end. Applications include MJU-48, M212, MJU-46, MJU-50, MJU-66, MJU-64, RR-188, and RR-170.
 consisting of a center pin which is glass to metal sealed inside a cylindrical aluminum
casing which is crimped over a scored metal closure on the output end. Applications include MJU-7A/B, MJU-53/B, MJU-62/B, MJU-59/B, MJU-10/B, MJU-40/B, and MJU-51A/B.
 two squibs each with a glass to metal seal inside a cylindrical aluminum casing with
scored metal on the output end. A small circuit board allows for the functioning of one squib at a time without repositioning the countermeasure. Applications include RR-180 and RR-196.
-25MM PGU-48/B (AB98): 25MM PGU-48/B (formerly Frangible Armor Piercing (FAP)) round to be used in GAU-22 gun on F-35/JSF.
-Items Less Than Five Million Dollars: All items have an annual procurement of less than $\$ 5,000,000$ and are Code A.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0207580F, 0207599F, 0208015F and 0208030F.

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12:

 CartridgesID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

352010 / Cartridges

## Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | (A143) 7.62MM BALL LINKED (M80) | P-5a | A |  | 1 - | - 15.500 | - 1 | - 12.750 | - 1 | - 12.750 |
| P-40a | (A978) CTG, 25MM, TP (PGU-23/U) |  |  |  | - 1 - | - 10.000 | - 117.000 | - 14.000 | - 1 | - 14.000 |
| P-5 | (AA22) 20MM PGU-28A/B SEMI-AP, HEI | P-5a | A |  | 1 - | - 148.689 | - /18.667 | - 133.000 | - 1 | - 133.000 |
| P-5 | (AA24) 20MM, TP PGU-27A/B | P-5a | A |  | 1 - | - 142.628 | - 126.694 | - 1 | - 1 | - 1 |
| P-40a | (AA40) 5.56MM, FRANGIBLE |  |  |  | 1 | - 18.000 | - 19.000 | - 19.000 | - 16.000 | - / 15.000 |
| P-40a | (AB09) 5.56 BLUE MARKING CARTRIDGE |  |  |  | - 1 - | - 15.000 | - 13.000 | - 11.500 | - 1 | - 11.500 |
| P-5 | (AB57) 5.56 CLIPPED BALL, LEAD FREE | P-5a | A |  | 1 | - 16.000 | - 16.000 | - 16.193 | - 14.000 | 110.193 |
| P-40a | (AB98) 25MM PGU-48/B |  |  |  | 1 | - / 10.000 | - 14.000 | - 120.100 | - 1 | 120.100 |
| P-40a | (AC29) PGU-30MM Cartridges HEI/TP Urban Mix |  |  |  | - 1 - | 1 | - 1 | - 1 - | - 19.587 | - 19.587 |
| P-5 | (B116) 30MM PGU-15/B, TP | P-5a | A |  | 1 | - /41.707 | - / 36.594 | - 128.934 | - 17.916 | 136.850 |
| P-40a | (MG62) BBU-35/B IMPULSE CARTRIDGE |  |  |  | 1 | - 15.895 | - 15.000 | - 15.008 | - 1- | - 15.008 |
| P-40a | (SS-27) BBU-48/B IMPULSE CARTRIDGE |  |  |  | - 1 - | - 14.000 | - 14.000 | - 14.000 | 1 - | - 14.000 |
| P-40a | CARTRIDGES (ITEMS LESS THAN \$5 MILLION) |  |  |  | - 1 - | - / 43.648 | - / 38.561 | - / 45.347 | - 12.084 | - / 47.431 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - /254.507 | - /173.128 | - / 163.840 | - 129.587 | - / 193.427 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

 well as certain impulse cartridges needed to eject weapons stores from bomb racks and instigate aircraft countermeasures.
 stockpiles as required and receive test and training allocations annually based on current-year requirements.
-20MM PGU-28 (AA22): This procurement is fulfill WRM requirements. Current stockpile inventory is $37 \%$ of total inventory objective. Low combat use.
-20MM PGU-27 (AA24): This procurement is critical to replenish WRM stockpiles supporting pilot training and proficiency
 purchases each year and difficult to meet training requirements.
-25MM PGU-48/B (AB98): 25MM PGU-48/B (formerly Frangible Armor Piercing (FAP)) or other alternative round to be used in GAU-22 gun on the F-35/JSF.
 system readiness. Current inventory is severely aged ( $30+$ years).


Exhibit P-5, Cost Analysis: PB 2019 Air Force


## 3011F / 01 / 12

ID Code (A=Service Ready, B=Not Service Ready) : A

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.500 | - | 2.750 | - | 2.750 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.500 | - | 2.750 | - | 2.750 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.500 | - | 2.750 | - | 2.750 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

| Cost Elements | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |

## Hardware - Hardware End Item Cost

Recurring Cost

| 7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT ${ }^{(\dagger)}$ | - | - | - | 0.000 | 10,101,923 | 5.253 | - | - | - | 0.000 | 4,576,786 | 2.563 | - | - | - | 0.000 | 4,576,786 | 2.563 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | - | - | - | 5.253 | - | - | - | - | - | 2.563 | - | - | - | - | - | 2.563 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 5.253 | - | - | - | - | - | 2.563 | - | - | - | - | - | 2.563 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PRODUCTION ENGINEERING | - | - | - | - | - | 0.229 | - | - | - | - | - | 0.184 | - | - | - | - | - | 0.184 |
| ACCEPTANCE TESTING | - | - | - | - | - | 0.013 | - | - | - | - | - | - | - | - | - | - | - | - |
| QUALITY ASSURANCE | - | - | - | - | - | 0.005 | - | - | - | - | - | 0.003 | - | - | - | - | - | 0.003 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.247 | - | - | - | - | - | 0.187 | - | - | - | - | - | 0.187 |
| Gross/Weapon System Cost | - | - | - | - | - | 5.500 | - | - | - | - | - | 2.750 | - | - | - | - | - | 2.750 |

## Remarks:

Item has been moved to P-40a Items Less Than $\$ 5$ Million.

 fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01/ 12 | P-1 Line Item Number / Title: 352010 / Cartridges | Item Number / Title [DODIC]: (A143) 7.62MM BALL LINKED (M80) |

${ }^{(t)}$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  | Item Number / Title [DODIC]: <br> (A143) 7.62MM BALL LINKED (M80) |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT |  | 2017 | ALLIANT TECH (LCAAP I INDEPENDENCE, MO | MIPR | ACC-ROCK ISLAND | Mar 2017 | Oct 2017 | 10,101,923 | 0.000 | Y |  | Jan 2017 |
| 7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT |  | 2019 | ALLIANT TECH (LCAAP I INDEPENDENCE, MO | MIPR | ACC-ROCK ISLAND | Mar 2019 | Oct 2019 | 4,576,786 | 0.000 | Y |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01/ 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  | Aggregated Items Title: <br> (A978) CTG, 25MM, TP (PGU-23/U) |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \text { ID } \\ \mathrm{CD} \end{array}$ | $\begin{aligned} & \text { MDAP// } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (A978) CTG, 25MM, TP (PGU-23/U) | A |  | - | - | - | - | - | 0.000 | 0.000 | 590,893 | 17.000 | 0.000 | 173,913 | 4.000 | - | - | - | 0.000 | 173,913 | 4.000 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 17.000 | - | - | 4.000 | - | - | - | - | - | 4.000 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 17.000 | - | - | 4.000 | - | - | - | - | - | 4.000 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3011F / 01 / 12
## P-1 Line Item Number / Title: 352010 / Cartridges

## Date: February 2018

## Item Number / Title [DODIC]:

(AA22) 20MM PGU-28A/B SEMI-AP, HEI

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 48.689 | 18.667 | 33.000 | - | 33.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 48.689 | 18.667 | 33.000 | - | 33.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 48.689 | 18.667 | 33.000 | - | 33.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOAD, ASSEMBLE, PACK ${ }^{(+)}$ | - | - | - | 0.000 | 1,923,240 | 47.196 | 0.000 | 610,138 | 18.188 | 0.000 | 1,093,000 | 32.582 | - | - | - | 0.000 | 1,093,000 | 32.582 |
| BOX, METAL M548 | - | - | - | 0.000 | 6,553 | 0.285 | 0.000 | 2,464 | 0.111 | 0.000 | 4,407 | 0.198 | - | - | - | 0.000 | 4,407 | 0.198 |
| PALLET MK3-0 | - | - | - | 0.000 | 300 | 0.053 | 0.000 | 221 | 0.019 | 0.000 | 192 | 0.035 | - | - | - | 0.000 | 192 | 0.035 |
| Subtotal: Recurring Cost | - | - | - | - | - | 47.535 | - | - | 18.318 | - | - | 32.815 | - | - | - | - | - | 32.815 |
| Subtotal: Hardware Hardware End Item Cost | - | - | - | - | - | 47.535 | - | - | 18.318 | - | - | 32.815 | - | - | - | - | - | 32.815 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| QUALITY ASSURANCE | - | - | - | - | - | 0.063 | - | - | 0.027 | - | - | 0.012 | - | - | - | - | - | 0.012 |
| FIRST ARTICLE TESTING | - | - | - | - | - | 1.091 | - | - | 0.322 | - | - | 0.173 | - | - | - | - | - | 0.173 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 1.154 | - | - | 0.349 | - | - | 0.185 | - | - | - | - | - | 0.185 |
| Gross/Weapon System Cost | - | - | - | - | - | 48.689 | - | - | 18.667 | - | - | 33.000 | - | - | - | - | - | 33.000 |

## Remarks:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain containers, pallets, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 | P-1 Line Item Number / Title: 352010 / Cartridges | Item Number / Title [DODIC]: (AA22) 20MM PGU-28A/B SEMI-AP, HEI |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |
| Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packing/boxing the ammunition rounds. The LAP quantity is the number of completed rounds to be delivered into the AF inventory. <br> Packaging, Crating and Handling (PC\&H) cost is associated with transferring the completed order from production to the first destination. <br> $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a |  |  |

ndicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  | Item Number / Title [DODIC]: <br> (AA22) 20MM PGU-28A/B SEMI-AP, HEI |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| LOAD, ASSEMBLE, PACK |  | 2017 | General Dynamics \& Alliant Tech / Marion, IL and Plymouth, MN | MIPR | AFLCMC Hill AFB | Mar 2017 | Mar 2018 | 1,923,240 | 0.000 | Y |  |  |
| LOAD, ASSEMBLE, PACK |  | 2018 | General Dynamics \& Alliant Tech / Marion, IL and Plymouth, MN | MIPR | AFLCMC Hill AFB | Mar 2018 | Apr 2019 | 610,138 | 0.000 | Y |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3011F / 01 / 12
## P-1 Line Item Number / Title: 352010 / Cartridges

Date: February 2018
Item Number / Title [DODIC]:
(AA24) 20MM, TP PGU-27A/B

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 42.628 | 26.694 | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 42.628 | 26.694 | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 42.628 | 26.694 | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOAD, ASSEMBLE, PACK ${ }^{(+)}$ | - | - | - | 0.000 | 3,630,100 | 41.710 | 0.000 | 2,125,200 | 26.097 | - | - | - | - | - | - | - | - | - |
| BOX METAL M548 | - | - | - | 0.000 | 14,696 | 0.613 | 0.000 | 8,587 | 0.385 | - | - | - | - | - | - | - | - | - |
| PALLET MK3-0 | - | - | - | 0.000 | 643 | 0.114 | 0.000 | 373 | 0.067 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 42.437 | - | - | 26.550 | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 42.437 | - | - | 26.550 | - | - | - | - | - | - | - | - | - |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| QUALITY ASSURANCE | - | - | - | - | - | 0.012 | - | - | 0.013 | - | - | - | - | - | - | - | - | - |
| FIRST ARTICLE TEST | - | - | - | - | - | 0.173 | - | - | 0.131 | - | - | - | - | - | - | - | - | - |
| ACCEPTANCE TESTING | - | - | - | - | - | 0.006 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.191 | - | - | 0.144 | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | - | - | - | 42.628 | - | - | 26.694 | - | - | - | - | - | - | - | - | - |

## Remarks:


 complex or scarce materials and orders from other Military Services (increases/decreases).


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| Exhibit P-5, Cost Analysis: PB 2019 Air Force | Date: February 2018 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3011 \mathrm{~F} / 01 / 12$ | P-1 Line Item Number / Title: <br> $352010 ~ / ~ C a r t r i d g e s ~$ | Item Number / Title [DODIC]: <br> (AA24) 20MM, TP PGU-27A/B |
| ID Code (A=Serice Ready, B=Not Serice Ready) : A | MDAP/MAIS Code: |  |

Packaging, Crating and Handling (PC\&H) cost is associated with transferring the completed order from production to the first destination.
${ }^{(\dagger)}$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> (AA24) 20MM, TP PGU-27A/B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budg 3011F / 01 / 12 |  |  | et Sub Activity: | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost $(\$ M)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| LOAD, ASSEMBLE, PACK |  | 2017 | GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN | MIPR | ACC-ROCK ISLAND | Mar 2017 | Mar 2018 | 3,630,100 | 0.000 | Y |  | Jan 2017 |
| LOAD, ASSEMBLE, PACK |  | 2018 | GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN | MIPR | ACC-ROCK ISLAND | Mar 2018 | Mar 2019 | 2,125,200 | 0.000 | Y |  | Jan 2018 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: (AA40) 5.56MM, FRANGIBLE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.56 MM FRANG (AA40) | A |  | - | - | - | 0.000 | 17,391,304 | 8.000 | 0.000 | 21,428,571 | 9.000 | 0.000 | 21,428,571 | 9.000 | 0.000 | 14,285,714 | 6.000 | 0.000 | 35,714,285 | 15.000 |
| Subtotal: Uncategorized |  |  | $\bullet$ | - | - | - | - | 8.000 | - | - | 9.000 | - | - | 9.000 | - | - | 6.000 | - | - | 15.000 |
| Total |  |  | - | - | - | - | - | 8.000 | - | - | 9.000 | - | - | 9.000 | - | - | 6.000 | - | - | 15.000 |
| Remarks: <br> The Air Force purchases Frangible rounds through the Dept of Navy. Prices for current and/or prior fiscal years represent the Vendor's total cost for completed and boxed rounds. Prices for budget years are estimates from industry obtained from the Navy. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: (AB09) 5.56 BLUE MARKING CARTRIDGE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | rior Years |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  | Unit Cost $(\$ M)$ | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (AB09) 5.56 BLUE MARKING CARTRIDGE |  | - | - | - | 0.000 | 6,329,114 | 14 5.000 | 0.000 | 4,477,612 | 3.000 | 0.000 | 2,368,920 | 1.500 | - | - | - | 0.000 | 2,368,920 | 1.500 |
| Subtotal: Uncategorized |  | - | - | - | - | - | 5.000 | - | - | 3.000 | - | - | 1.500 | - | - | - | - | - | 1.500 |
| Total |  | - | - |  |  |  | 5.000 |  |  | 3.000 | - | - | 1.500 | - |  |  | - | - | 1.500 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> (AB09) 5.56 Blue Marking Cartridge FY18 funding has been moved to P-40a Cartridges (Items Less Than $\$ 5$ Million). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F/01/12 |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  | Item Number / Title [DODIC]: <br> (AB57) 5.56 CLIPPED BALL, LEAD FREE |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| LOAD, ASSEMBLE, PACK |  | 2017 | OLIN AND ALLIANT/ INDEPENDENCE, MO AND EAST ALTON, IL | MIPR | ACC-ROCK ISLAND | Apr 2017 | Apr 2018 | 18,456,666 | 0.000 | Y |  | Jan 2017 |
| LOAD, ASSEMBLE, PACK |  | 2018 | OLIN AND ALLIANT/ INDEPENDENCE, MO AND EAST ALTON, IL | MIPR | ACC-ROCK ISLAND | Apr 2018 | Apr 2019 | 18,300,000 | 0.000 | Y |  | Jan 2018 |
| LOAD, ASSEMBLE, PACK |  | 2019 | OLIN AND ALLIANT/ INDEPENDENCE, MO AND EAST ALTON, IL | MIPR | ACC-ROCK ISLAND | Apr 2019 | Apr 2020 | 20,150,000 | 0.000 | Y |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: (AB98) 25MM PGU-48/B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Years |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25MM PGU-48/B | A |  | - | - | - | 0.000 | 48,309 | 10.000 | 0.000 | 15,444 | 4.000 | 0.000 | 135,472 | 20.100 | - | - | - | 0.000 | 135,472 | 20.100 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | 10.000 | - | - | 4.000 | - | - | 20.100 | - | - | - | - | - | 20.100 |
| Total |  |  | - | - | - | - | - | 10.000 | - | - | 4.000 | - | - | 20.100 | - | - | - | - | - | 20.100 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> The PGU-48/B is a high performance 25MM Frangible Armor Piercing (FAP) Round that is being procured for use on the F-35/A. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  | Aggregated Items Title: (AC29) PGU-30MM Cartridges HEI/TP Urban Mix |  |  |  |  |
| Item Number / Title [DODIC] |  | MDAPI <br> MAIS <br> Code | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
|  |  |  | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (AC29) 30MM Cartridges HIE/TP Urban Mix | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | 0.000 | 213,044 | 9.587 | 0.000 | 213,044 | 9.587 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | 9.587 | - | - | 9.587 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.587 | - | - | 9.587 |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12

## P-1 Line Item Number / Title: 352010 / Cartridges

Date: February 2018
Item Number / Title [DODIC]:
(B116) 30MM PGU-15/B, TP

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 41.707 | 36.594 | 28.934 | 7.916 | 36.850 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 41.707 | 36.594 | 28.934 | 7.916 | 36.850 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 41.707 | 36.594 | 28.934 | 7.916 | 36.850 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOAD,ASSEMBLE,PAC | $K^{(t)}$ | - | - | 0.000 | 1,734,900 | 38.341 | 0.000 | 1,459,180 | 33.663 | 0.000 | 1,162,000 | 26.807 | 0.000 | 315,250 | 7.273 | 0.000 | 1,477,250 | 34.080 |
| CONTAINER CNU-332E | - | - | - | 0.001 | 3,122 | 1.575 | 0.001 | 2,626 | 1.352 | 0.000 | 2,090 | 0.917 | 0.000 | 567 | 0.249 | 0.000 | 2,657 | 1.165 |
| TUBE AND STRAP ASSEMBLY | - | - | - | 0.000 | 3,122 | 1.388 | 0.000 | 2,626 | 1.167 | 0.000 | 2,090 | 0.929 | 0.000 | 567 | 0.252 | 0.000 | 2,657 | 1.181 |
| Subtotal: Recurring Cost | - | - | - | - | - | 41.304 | - | - | 36.183 | - | - | 28.653 | - | - | 7.773 | - | - | 36.426 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 41.304 | - | - | 36.183 | - | - | 28.653 | - | - | 7.773 | - | - | 36.426 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| QUALITY ASSURANCE | - | - | - | - | - | 0.012 | - | - | 0.012 | - | - | 0.010 | - | - | 0.005 | - | - | 0.015 |
| ACCEPTANCE TESTING | - | - | - | - | - | 0.134 | - | - | 0.129 | - | - | 0.011 | - | - | 0.005 | - | - | 0.016 |
| FIRST ARTICLE TEST | - | - | - | - | - | 0.257 | - | - | 0.270 | - | - | 0.260 | - | - | 0.133 | - | - | 0.393 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.403 | - | - | 0.411 | - | - | 0.281 | - | - | 0.143 | - | - | 0.424 |
| Gross/Weapon System Cost | - | - | - | - | - | 41.707 | - | - | 36.594 | - | - | 28.934 | - | - | 7.916 | - | - | 36.850 |

## Remarks:


 fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 | P-1 Line Item Number / Title: 352010 / Cartridges | Item Number / Title [DODIC] (B116) 30MM PGU-15/B, TP |
| ID Code (A=Serice Ready, $\mathrm{B}=$ Not Serice Ready : A | MDAP/MAIS Code: |  |

indicates the presence of a P-5a

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 Aggregated Items Title: (MG62) BBU-35/B IMPULSE CARTRIDGE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { (MG62) BBU-35/ } \\ & \text { B IMPULSE } \\ & \text { CARTIDGE } \end{aligned}$ | A |  | - | - | - | 0.000 | 2,311,765 | 5.895 | 0.000 | 3,500,000 | 5.000 | 0.000 | 2,052,459 | 5.008 | - | - | - | 0.000 | 2,052,459 | 5.008 |
| Subtotal: Uncategorized |  |  | - | - | - | $\cdot$ | - | 5.895 | - | - | 5.000 | - | $\cdot$ | 5.008 | - | - | - | - | - | 5.008 |
| Total |  |  | - | - | - | - | - | 5.895 | - | - | 5.000 | - | - | 5.008 | - | - | . | - | - | 5.008 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: (SS-27) BBU-48/B IMPULSE CARTRIDGE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { (SS-27) BBU-48/ } \\ & \text { B IMPULSE } \\ & \text { CARTRIDGE } \end{aligned}$ | A | - |  |  | 0.000 | 444,939 | 4.000 | 0.000 | 440,613 | 4.000 | 0.000 | 441,014 | 4.000 | - | - | - | 0.000 | 441,014 | 4.000 |
| Subtotal: Uncategorized |  | - | - | - | - | - | 4.000 | - | - | 4.000 | - | - | 4.000 | - | - | - | $\cdot$ | - | 4.000 |
| Total |  | - | - | - | - | - | 4.000 | - | - | 4.000 | - | - | 4.000 | - | - | - | - | - | 4.000 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.Remarks:(SS-27) BBU-48/B IMPULSE CARTRIDGE FY18 funding was moved to Cartridges (Items Less Than $\$ 5$ Million). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 352010 / Cartridges |  |  |  |  |  |  |  | Aggregated Items Title: <br> CARTRIDGES (ITEMS LESS THAN \$5 MILLION) |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | mDAP/ <br> mals <br> code | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
|  |  |  | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) |
| AMMUNITION CARTRIDGES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A017) CTG, 12 GA BUCKSHOT | A |  | - | - | - | 0.000 | 33,333 | . 0.010 | 0.000 | 16,890 | 0.010 | 0.000 | 17,544 | 0.010 | - | - | - | 0.000 | 17,544 | 0.010 |
| (A062) CTG, 5.56MM BALL M855 LINKED | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A080) CTG, 5.56MM BLANK M200 | A |  | - | - | - | 0.000 | 3,666,666 | . 0.550 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A091) CTG, 22 CAL LONG RIFLE | A |  | - | - | - | 0.000 | 1,718,750 | 0.275 | 0.000 | 812,500 | 0.195 | - | - | - | - | - | - | - | - | - |
| (A131) CTG, 7.62MM BALL 4-1 LINKED | A |  | - | - | - | 0.000 | 1,428,571 | 0.800 | 0.000 | 3,389,830 | 2.000 | 0.000 | 3,448,276 | 2.000 | - | - | - | 0.000 | 3,448,276 | 2.000 |
| (A143) 7.62MM BALL LINKED (M80) | A |  | - | - | - | - | - | - | 0.000 | 5,454,400 | 3.000 | 0.000 | 5,357,143 | 3.000 | 0.000 | 1,785,714 | 1.000 | 0.000 | 7,142,857 | 4.000 |
| (A164) CTG, 7.62MM LINKED | A |  | - | - | - | 0.000 | 1,923,076 | - 1.000 | - | - | 0.000 | 0.000 | 1,851,852 | 1.000 | - | - | - | 0.000 | 1,851,852 | 1.000 |
| (A246) CTG, 30 CAL BALL BULK | A |  | - | - | - | - | - | - | 0.000 | 38,461 | 0.010 | - | - | - | - | - | - | - | - | - |
| (A165) CARTRIDGE 7.62MM M80 | A |  | - | - | - | - | - | - | - | - | - | 0.000 | 1,818,182 | 1.000 | - | - | - | 0.000 | 1,818,182 | 1.000 |
| (A257) CTG, 7.62MM 9-1 DIM TRACER | A |  | - | - | - | 0.000 | 471,698 | 0.250 | 0.000 | 363,538 | 0.200 | 0.000 | 363,636 | 0.200 | - | - | - | 0.000 | 363,636 | 0.200 |
| (A363) 9MM BALL NATO XM882 PISTOL | A |  | - | - | - | 0.000 | 5,000,000 | 1.000 | 0.000 | 3,750,000 | 0.750 | 0.000 | 5,000,000 | 1.000 | - | - | - | 0.000 | 5,000,000 | 1.000 |
| (A404) CTG, 38 CAL SP BALL WADCUTTER | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A475) CTG, CAL 45 BALL M1911 | A |  | - | - | - | 0.000 | 538,461 | 10.350 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A482) CTG CAL . 45 BALL WADCUTTER | A |  | - | - | - | 0.000 | 480,769 | 0.250 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A483) CTG CAL . 45 BALL M1911 MTCHGRD | A |  | - | - | - | 0.000 | 197,368 | 0.075 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A552) CTG, 50 CAL BALL SINGLE ROUND, M33 | A |  | - | - | - | 0.000 | 268,292 | . 0.550 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A555) CTG, CAL . 50 BALL M2 LINKED | A |  | - | - | - | 0.000 | 1,666,666 | 6.500 | - | - | 0.000 | 0.000 | 473,934 | 1.000 | - | - | - | 0.000 | 473,934 | 1.000 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: CARTRIDGES (ITEMS LESS THAN \$5 MILLION) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / $01 / 12$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 352010 / Cartridges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | ID | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| (A557) CTG, CAL . 50 BALL/TRACER/ LINKED M2/M9 | A |  | - | - | - | 0.000 | 1,141,552 | 2.500 | 0.000 | 923,538 | 2.000 | 0.000 | 909,091 | 2.000 | - | - | - | 0.000 | 909,091 | 2.000 |
| (A598) CTG CAL. 50 BLNK CRMPD W/M9 LNK | A |  | - | - | - | - | - | 0.000 | 0.000 | 191,387 | 0.400 | - | - | - | - | - | - | - | - | - |
| (A606) CTG, CAL. 50 API MK211 MOD 0 | A |  | - | - | - | 0.000 | 68,933 | 0.750 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (A607) CTG, 50 CAL ARMOR PIERCING INCENDIARY | A |  | - | - | - | 0.000 | 94,696 | 0.750 | 0.000 | 75,835 | 0.600 | 0.000 | 75,949 | 0.600 | - | - | - | 0.000 | 75,949 | 0.600 |
| (AA02) CTG 5.56MM AP/TR M995/M856 4-1 | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { (AA03) CTG. } 7.62 \\ & \text { M993 AP } \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (AA04) CTG. 7.62MM 4 AP M9331/1TR M62 W/LK M13 | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (AA11) CTG. 7.62 NATO M118 SPEC BALL | A |  | - | - | - | 0.000 | 746,268 | 0.500 | - | - | 0.000 | 0.000 | 735,294 | 0.500 | - | - | - | 0.000 | 735,294 | 0.500 |
| (AA16) 9 MILLIME CARTRIDGE FRANG | A |  | - | - | - | 0.000 | 9,166,667 | 2.750 | 0.000 | 8,387,096 | 2.600 | - | - | - | - | - | - | - | - | - |
| (AA51) 12 GA NONLETHAL PT-CONT | A |  | - | - | - | 0.000 | 46,511 | 0.100 | 0.000 | 16,129 | 0.035 | 0.000 | 22,727 | 0.050 | - | - | - | 0.000 | 22,727 | 0.050 |
| (AA52) 12 GA NONLETHAL CROWD | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (AA53) CTG 5.56 SPECIAL MK262 MOD 1 | A |  | - | - | - | 0.000 | 1,271,186 | 0.750 | 0.000 | 834,724 | 0.500 | - | - | - | - | - | - | - | - | - |
| (AB10) 5.56 RED MARKING CARTRIDGES | A |  | - | - | - | 0.000 | 1,265,822 | 1.000 | 0.000 | 4,838,709 | 3.000 | 0.000 | 5,238,095 | 3.300 | - | - | - | 0.000 | 5,238,095 | 3.300 |
| (AB13) 9MM BLUE MARKING CARTRIDGE | A |  | - | - | - | 0.000 | 3,906,250 | 2.500 | 0.000 | 3,333,333 | 2.000 | 0.000 | 3,770,492 | 2.300 | - | - | - | 0.000 | 3,770,492 | 2.300 |
| (AB14) 9M RED MARKING CARTRIDGE | A |  | - | - | - | 0.000 | 5,384,615 | 3.500 | 0.000 | 3,346,552 | 2.000 | 0.000 | 3,770,492 | 2.300 | - | - | - | 0.000 | 3,770,492 | 2.300 |
| (AB39) 7.62MM SPECIAL BALL, LONG RANGE | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3011 \mathrm{~F} / 01 / 12$ | P-1 Line Item Number / Title: <br> $352010 /$ Cartridges |
| :--- | :--- |


|  | Prior Years | FY 2017 | FY 2018 |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / $01 / 12$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 352010 / Cartridges |  |  |  |  |  |  |  | Aggregated Items Title: <br> CARTRIDGES (ITEMS LESS THAN \$5 MILLION) |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
|  |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| $\begin{aligned} & \text { (3W37) CHAFF, } \\ & \text { RR-188 } \end{aligned}$ | A |  | - | - | - | 0.000 | 1,008,174 | 3.700 | 0.000 | 1,008,174 | 3.700 | 0.000 | 1,007,397 | 3.500 | - | - | - | 0.000 | 1,007,397 | 3.500 |
| (MG11) CTG, IMPULSE, BBU-36/B | A |  | - | - | - | - | - | - | - | - | - | 0.000 | 955,414 | 3.000 | - | - | - | 0.000 | 955,414 | 3.000 |
| $\begin{aligned} & \text { (JN31) CU-168 } \\ & \text { SQUIB } \end{aligned}$ | A |  | - | - | - | 0.001 | 3,606 | 2.000 | 0.001 | 3,606 | 2.000 | 0.001 | 2,647 | 2.000 | - | - | - | 0.001 | 2,647 | 2.000 |
| (WA83) CCU-136 | A |  | - | - | - | 0.000 | 2,717 | 0.010 | 0.000 | 2,717 | 0.010 | - | - | - | - | - | - | - | - | - |
| (WB24) CCU-145 | A |  | - | - | - | 0.000 | 37,664 | 0.200 | 0.000 | 37,664 | 0.200 | - | - | - | - | - | - | - | - | - |
| (M943) MK107 IMPULSE CARTRIDGE | A |  | - | - | - | 0.000 | 4,329 | 1.500 | 0.000 | 4,329 | 1.500 | 0.000 | 4,230 | 1.500 | - | - | - | 0.000 | 4,230 | 1.500 |
| $\begin{aligned} & \text { (MF60) CTG 25MM } \\ & \text { TP PGU-23/U } \end{aligned}$ | A |  | - | - | - | 0.000 | 28,968 | 0.250 | 0.000 | 28,968 | 0.250 | - | - | - | - | - | - | - | - | - |
| (MT40) BBU-46 SQUIB, ELECTRIC | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (NY02) CHAFF, RR-196(T-1)AL | A |  | - | - | - | 0.000 | 74,313 | 3.000 | 0.000 | 74,313 | 3.000 | 0.000 | 72,664 | 3.000 | - | - | - | 0.000 | 72,664 | 3.000 |
| (SS44) BBU63/ B IMPULSE CARTRIDGE | A |  | - | - | - | 0.001 | 3,702 | 2.000 | 0.001 | 3,702 | 2.000 | 0.000 | 4,040 | 2.000 | - | - | - | 0.000 | 4,040 | 2.000 |
| (SY16) RR-180 CHAFF CARTRIDGE | A |  | - | - | - | 0.000 | 264,270 | 2.500 | 0.000 | 264,270 | 2.500 | 0.000 | 253,642 | 2.500 | - | - | - | 0.000 | 253,642 | 2.500 |
| Subtotal: IMPULSE CARTRIDGES |  |  | - | - | - | - | - | 15.160 | - | - | 15.160 | - | - | 17.500 | - | - | - | - | - | 17.500 |
| Total |  |  | - | - | - | - | - | 43.648 | - | - | 38.561 | - | - | 45.347 | - | - | 2.084 | - | - | 47.431 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Remarks:

All Ammunition Cartridges:

 City Army Ammo Plant (LCAAP)and the planned procurements of other customers.

The Navy procures Frangible rounds such as DODIC AA16, 9MM for the Air Force and prices provided based on vendor estimates and AF and Navy combined planned procurements.
All Chaff and Impulse Cartridges:
The Navy procures Chaff and some Impulse Cartridge (all CCU and MK cartridges) items based on planned Air Force and Navy requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs

| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready): |  |  | Program Ele | ments for Cod | e B Items: |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 77.686 | 28.509 | 20.876 | 0.000 | 20.876 | 29.313 | 29.858 | 30.399 | 30.946 | - | 247.587 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 77.686 | 28.509 | 20.876 | 0.000 | 20.876 | 29.313 | 29.858 | 30.399 | 30.946 | - | 247.587 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 77.686 | 28.509 | 20.876 | 0.000 | 20.876 | 29.313 | 29.858 | 30.399 | 30.946 | - | 247.587 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The following Weapon System Cost Elements are represented in this P-1 line:
 procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
 MK-82. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PE 0207599F.

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | (ED12) BDU-56A/B, 2000LB PRAC BOMB | P-5a | A |  | - 1 - | - 12.001 | - 12.000 | 1 | - 1 - | 1 |
| P-5 | (ED96) BDU-50 2000LB CDI PRAC BOMB | P-5a | A |  | 1 - | - 175.685 | - 126.509 | - 120.876 | - 1 | - 120.876 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 - | - 177.686 | - 128.509 | - $/ 20.876$ | - 10.000 | - 120.876 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

 simulate drop trajectory and weight of explosive-filled weapons.
 stockpiles as required and receive test and training allocations annually based on current-year requirements.

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force | Date: February 2018 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3011 \mathrm{~F} / 01$ / 13 | P-1 Line Item Number / Title: <br> $353010 /$ Practice Bombs | Item Number / Title [DODIC]: <br> (ED12) BDU-56A/B, 2000LB PRAC <br> BOMB |

ID Code (A=Service Ready, B=Not Service Ready) : A

## MDAP/MAIS Code:

 explosive fill material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order.
 receive bomb bodies and for non-explosive fill materials and packing materials used to produce an inventory-worthy round.

Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  | P-1 Line Item Number / Title: 353010 / Practice Bombs |  |  |  | Item Number / Title [DODIC]: (ED12) BDU-56A/B, 2000LB PRAC BOMB |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| LOAD, ASSEMBLE, PACK (LAP) |  | 2017 | ALLIED MECHANICAL WISCONSIN I APPLETON, WISCONSIN | MIPR | ACC-ROCK ISLAND | Mar 2017 | Mar 2018 | 239 | 0.008 | Y |  | Jan 2017 |
| LOAD, ASSEMBLE, PACK (LAP) |  | 2018 | ALLIED MECHANICAL WISCONSIN I APPLETON, WISCONSIN | MIPR | ACC-ROCK ISLAND | Mar 2018 | Mar 2019 | 255 | 0.007 | Y |  | Jan 2018 |



| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3011 F ~ / ~ 01 / 13 ~$ |  |

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## P-1 Line Item Number / Title:

353020 / General Purpose Bombs

## 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13:

 Bombs| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | FY 2019 Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 569.482 | 329.501 | 259.308 | 551.862 | 811.170 | 342.632 | 454.175 | 506.673 | 515.796 | - | 3,529.429 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 569.482 | 329.501 | 259.308 | 551.862 | 811.170 | 342.632 | 454.175 | 506.673 | 515.796 | - | 3,529.429 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 569.482 | 329.501 | 259.308 | 551.862 | 811.170 | 342.632 | 454.175 | 506.673 | 515.796 | - | 3,529.429 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The following Weapon System Cost Elements are represented in this P-1 line:



 Munitions Sustainment Division at Hill AFB.



 for issues such as flight failures and weapon accuracy as well as data for the long term sustainment of the weapon system.
 aided INS and laser terminal guidance capabilities to enable the GBU-49 to engage fixed, re-locatable, and moving targets.

 with proximity, instantaneous, or delayed fuzes to provide a variety of military effects. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13:

 Bombs
## P-1 Line Item Number / Title:

353020 / General Purpose Bombs

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: N/A


 (GBU-12,-22,-38,or -54) and aerial mines depending on the fin/airfoil group and fuzing. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).

 Conventional Ammunition (SMCA).


 requirements based on current tactical operational needs until a normalized inventory objective is established.
-Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapon capabilties to meet the DoD policy on cluster munitions. They consist of BLU-134/B and BLU-136/B warheads with a height of burst sensor. BLU-134/B, Improved Lethality Warhead (ILW), Next Generation Area Attack Weapon Increment I, is an area attack employed, near-term

 lethality which meets DoD policy on cluster munitions.
-Items Less Than Five Million Dollars: All items have an annual procurement of less than $\$ 5,000,000$ and are Code A.
Portion of FY19-FY23 funding will be used for facilitization efforts. This will enhance production line capacity required to replenish inventory.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0208030F, 0207599F

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force

## P-1 Line Item Number / Title:

 353020 / General Purpose Bombs
## 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13:

 Bombs| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | (EC32) MXU-650 GCG, FIN ASSEMBLY |  |  |  | - 1 - | - $/ 20.640$ | - / 18.000 | - / 18.000 | - 13.300 | - 121.300 |
| P-5 | (ED09) BLU-117, 2000LB GP BOMB | P-5a | A |  | - 1 - | - 1367.461 | - 132.603 | - 1 - | - 1 - | - 1 - |
| P-5 | (ED15) BLU-111A/B 500LB GP BOMB |  | A |  | - 1 - | - 15.000 | - 15.000 | - 15.000 | 1 | - 15.000 |
| P-5 | (ED49) BLU-109 2000 LB HARD TARGET BOMB | P-5a | A |  | - 1 - | - 197.000 | - 170.000 | - / 45.483 | - / 541.862 | - $/ 587.345$ |
| P-40a | (ED58) MAU-209C/B CCG |  |  |  | - 1 - | - / 45.281 | - 125.000 | - 135.000 | - 16.700 | - 141.700 |
| P-40a | (ED78) BLU-129/B 500LB BOMB |  |  |  | - 1 - | - 1 - | - 18.125 | - 18.125 | - 1 - | - 18.125 |
| P-40a | BLU-134/B CDI 500LB |  |  |  | 1 | 1 | - 181.573 | - 184.996 | - 1 - | - 184.996 |
| P-5 | (EE59) BLU-137 |  | A |  | 1 | 1 | - 1 - | 1,000/45.500 | - 1 - | 1,000/45.500 |
| P-40a | GBU-49 |  |  |  | - 1 - | - 10.000 | - 172.000 | - 1 | - 1 - | / - |
| P-40a | GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION) |  |  |  | 1 | - / 17.100 | - / 17.200 | - / 17.200 | 1 | - / 17.200 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 1569.482 | - 1329.501 | - 1259.308 | - 1551.862 | - 1811.170 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 structures and various armored targets. Built up with assorted componentry, the bombs can also be employed as Joint Direct Attack Munitions or Laser Guided Bombs.
 stockpiles as required and receive test and training allocations annually based on current-year requirements.
 multiple precision guided bomb configurations as determined by the non-nuclear consumables annual analysis (NCAA), to execute DoD approved combat plans and training requirements.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  |  |  | P-1 Line Item Number / Title: 353020 / General Purpose Bombs |  |  |  |  |  |  |  | Aggregated Items Title: (EC32) MXU-650 GCG, FIN ASSEMBLY |  |  |  |  |
|  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  MDAP/ <br> ID MAIS <br> CD code | Unit Cost (\$M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MXU-650 FIN ASSEMBLY - EC32 | A | - |  | - | 0.004 | 4,832 | 20.640 | 0.004 | 4,500 | 18.000 | 0.004 | 4,726 | 18.000 | 0.004 | 866 | 3.300 | 0.004 | 5,592 | 21.300 |
| Subtotal: Uncategoriz |  | - | - | - | - | - | 20.640 | - | - | 18.000 | - | - | 18.000 | - | - | 3.300 | - | - | 21.300 |
| Total |  | - | - | - | - | - | 20.640 | - | - | 18.000 | - | - | 18.000 | - | - | 3.300 | - | - | 21.300 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently quanlified vendors, estimated unit cost information from the vendors is not available for planning purposes. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13

## P-1 Line Item Number / Title:

 353020 / General Purpose BombsDate: February 2018
Item Number / Title [DODIC]:
(ED09) BLU-117, 2000LB GP BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:


Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOAD, ASSEMBLE, PACK (LAP) $^{(\dagger)}$ | - | - | - | 0.005 | 14,138 | 77.213 | 0.005 | 1,302 | 6.638 | - | - | - | - | - | - | - | - | - |
| BOMB BODY 2000LB MK84 MOD 10 IM | - | - | - | 0.006 | 14,138 | 89.510 | 0.005 | 1,302 | 7.031 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { LUG SUSP ACFT } \\ & \text { ORD MK3-0 } \\ & \hline \end{aligned}$ | - | - | - | 0.000 | 28,276 | 1.620 | 0.000 | 2,604 | 0.166 | - | - | - | - | - | - | - | - | - |
| CXM-AF7 | - | - | - | 0.000 | 10,223,680 | 193.125 | 0.000 | 895,776 | 18.014 | - | - | - | - | - | - | - | - | - |
| PALLET MK79-1 | - | - | - | 0.001 | 7,069 | 5.571 | 0.001 | 651 | 0.630 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 367.039 | - | - | 32.479 | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 367.039 | - | - | 32.479 | - | - | - | - | - | - | - | - | - |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PRODUCTION ENGINEERING | - | - | - | - | - | 0.379 | - | - | 0.106 | - | - | - | - | - | - | - | - | - |
| QUALITY ASSURANCE | - | - | - | - | - | 0.004 | - | - | 0.003 | - | - | - | - | - | - | - | - | - |
| FIRST ARTICLE TEST | - | - | - | - | - | 0.039 | - | - | 0.015 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.422 | - | - | 0.124 | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | - | - | - | 367.461 | - | - | 32.603 | - | - | - | - | - | - | - | - | - |

Remarks:

| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 | P-1 Line Item Number / Title: 353020 / General Purpose Bombs | Item Number / Title [DODIC]: (ED09) BLU-117, 2000LB GP BOMB |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |
| This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order. |  |  |
| The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round. |  |  |
| Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives. |  |  |
| Primary cost drivers include the total military customer orders (increases <br> $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a | ases), complex or scarce materials, econom | luctuations. |

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  | P-1 Line Item Number / Title: 353020 / General Purpose Bombs |  |  |  |  | Item Number / Title [DODIC]: (ED09) BLU-117, 2000LB GP BOMB |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location |  |  | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| LOAD, ASSEMBLE, PACK (LAP) |  | 2017 | MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK |  |  | MIPR | ACC-ROCK ISLAND | Jun 2017 | Jul 2018 | 14,138 | 0.005 | Y |  |  |
| LOAD, ASSEMBLE, PACK (LAP) |  | 2018 | MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK |  |  | MIPR | ACC-ROCK ISLAND | Jun 2018 | Jul 2018 | 1,302 | 0.005 | Y |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13
ID Code (A=Service Ready, B=Not Service Ready) : A

| ID Code (A=Service Rea | B=Not Servic | Ready) : |  |  |  |  |  |  |  | /M | e: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary |  |  |  |  | Prior Years |  |  |  |  |  |  | FY 2019 Base |  |  | FY 2019 OCO |  | FY 2019 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 5.000 |  | 5.00 |  |  | . 000 |  | - |  | 5.000 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | 5.000 |  | 5.00 |  |  | . 000 |  | - |  | 5.000 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 5.000 |  | 5.00 |  |  | . 000 |  | - |  | 5.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| Hardware - Cost Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOAD, ASSEMBLE, PACK (LAP) | - | - | - | 0.002 | 815 | 1.283 | 0.002 | 787 | 1.234 | 0.002 | 904 | 1.831 | - |  | - | 0.002 | 904 | 1.831 |
| BOMB BODY 500 LB MK82 MOD 6 IM | - | - | - | 0.002 | 815 | 1.865 | 0.002 | 787 | 1.954 | 0.001 | 904 | 1.342 | - |  | - - | 0.001 | 904 | 1.342 |
| LUG SUSP ACFT ORD MS3314 | - | - | - | 0.000 | 1,631 | 0.050 | 0.000 | 1,574 | 0.054 | 0.000 | 1,808 | 0.052 | - |  | - - | 0.000 | 1,808 | 0.052 |
| CXM-7 | - | - | - | 0.000 | 106,022 | 1.740 | 0.000 | 102,310 | 1.566 | 0.000 | 117,520 | 1.614 | - |  | - - | 0.000 | 117,520 | 1.614 |
| PALLET INSPECTION, MHU-122E | - | - | - | 0.000 | 136 | 0.026 | 0.000 | 131 | 0.025 | 0.000 | 151 | 0.028 | - |  | - | 0.000 | 151 | 0.028 |
| PALLET MHU-122/E | - | - | - | - | - | - | 0.000 | 131 | 0.031 | 0.000 | 151 | 0.036 | - |  | - | 0.000 | 151 | 0.036 |
| Subtotal: Recurring Cost | - | - | - | - | - | 4.964 | - | - | 4.864 | - | - | 4.903 | - |  | - - | - | - | 4.903 |
| Subtotal: Hardware - Cost Cost | - | - | - | - | - | 4.964 | - | - | 4.864 | - | - | 4.903 | - |  | - | - | - | 4.903 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PRODUCTION ENGINEERING | - | - | - | - | - | 0.022 | - | - | 0.069 | - | - | 0.080 | - |  | - | - | - | 0.080 |
| QUALITY ASSURANCE | - | - | - | - | - | 0.001 | - | - | 0.004 | - | - | 0.010 | - |  | - - | - | - | 0.010 |
| FIRST ARTICLE TEST | - | - | - | - | - | 0.013 | - | - | 0.047 | - | - | 0.007 | - |  | - - | - | - | 0.007 |
| ACCEPTANCE TESTING | - | - | - | - | - | - | - | - | 0.016 | - | - | 0.000 | - |  | - | - | - | 0.000 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.036 | - | - | 0.136 | - | - | 0.097 | - |  | - | - | - | 0.097 |

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## Remarks:

This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order.

The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.

Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.

Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  | Date: February 2018 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01/ 13 | P-1 Line Item Number / Title: 353020 / General Purpose Bombs | Item Number / Title [DODIC]: <br> (ED49) BLU-109 2000 LB HARD <br> TARGET BOMB |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |
| This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order. |  |  |
| The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round. |  |  |
| Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives. |  |  |
| Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations. |  |  |
| The BLU-137/B Advanced 2,000-pound Penetrator (A2K) will eventually begin to replace the BLU-109 C/B. The BLU-137/B will be initially procured through AFLCMC/EBD at Eglin AFB in FY18 and will transition to Hill (AFLCMC/EBH) for future procurement. |  |  |
| ${ }^{(\dagger)}$ indicates the presence of a P-5a |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 353020 / General Purpose Bombs |  |  |  |  |  |  |  | Aggregated Items Title: (ED58) MAU-209C/B CCG |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAU-209C/B - ED58 | A |  | - | - |  | 0.005 | 8,446 | 45.281 | 0.007 | 3,571 | 25.000 | 0.008 | 4,520 | 35.000 | 0.008 | 865 | 6.700 | 0.008 | 5,385 | 41.700 |
| Subtotal: Uncategorized |  |  | - | - |  | - | - | 45.281 | - | - | 25.000 | - | - | 35.000 | - | - | 6.700 | - | - | 41.700 |
| Total |  |  | - | - | - | - | - | 45.281 | - | - | 25.000 | - | - | 35.000 | - | - | 6.700 | - | - | 41.700 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Remarks:

Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit costs are not available for planning purposes.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: BLU-134/B CDI 500LB |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 353020 / General Purpose Bombs |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\left.\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered} \right\rvert\,$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { BLU-134/B, CDI } 500 \\ & \text { Ib } \end{aligned}$ | A |  | - |  | - | - |  | - - | 0.010 | 8,225 | 81.573 | 0.010 | 8,492 | 84.996 | - | - | - | 0.010 | 8,492 | 84.996 |
| Subtotal: Uncategorized |  |  | - | - | - | - |  | - - |  |  | 81.573 | - | - | 84.996 | - |  |  | - | - | 84.996 |
| Total |  |  | - | - | - | - |  | - | - | - | 81.573 | - | - | 84.996 | - | - | - | - | - | 84.996 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Next Generation Area Attack Weapons (NGAAWs)are a family of unitary area attack weapon capabilities to meet the DoD policy on cluster munitions. They consist of BLU-134/B and BLU-136/B warheads with a cockpit height of burst sensor. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BLU-134/B, Improved Lethality Warhead (ILW), NGAAW Increment I is an area attack employed, near-term solution, 500 lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BLU-136/B, NGAAW Increment II, is a $2,000 \mathrm{lb}$ area attack warhead to augment the BLU-134/B for significant improvement against the APAM target lethality which meets DoD policy on cluster munitions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13

## P-1 Line Item Number / Title:

 353020 / General Purpose BombsDate: February 2018

## Item Number / Title [DODIC]:

(EE59) BLU-137

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:


## Remarks:




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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3011 \mathrm{~F} / 01 / 13$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 353020 / General Purpose Bombs |  |  |  |  |  |  |  | Aggregated Items Title: <br> GENERAL PURPOSE BOMBS (ITEMS <br> LESS THAN $\$ 5$ MILLION) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MXU-651 AFG, GBU-10 (EC31) | A |  | - | - | - | 0.009 | 200 | $0 \quad 1.700$ | 0.009 | 211 | 1.800 | - | - | 1.800 | - | - | - | - | - | 1.800 |
| BOMB FUZE PROTECTION ASSEMBLY (ED67) | A |  | - | - | - | 0.000 | 4,160 | 0.500 | 0.000 | 4,310 | 0.500 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| MK84 FIN ASSEMBLY (F607) | A |  | - | - | - | 0.001 | 1,182 | 21.000 | 0.001 | 1,308 | 1.000 | - | - | 1.000 | - | - | - | - | - | 1.000 |
| FIN ASSY BSU-33B/ <br> B (EE10) | A |  | - | - | - | 0.000 | 10,655 | $5 \quad 3.000$ | 0.000 | 10,879 | 3.000 | - | - | 3.000 | - | - | - | - | - | 3.000 |
| (ED41) BLU-110B/B GENERAL PURPOSE BOMB | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| IM | A |  | - | - | - | - | - | 2.000 | - | - | 2.000 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| LWIP | A |  | - | - | - | - | - | 3.000 | - | - | 3.000 | - | - | 3.000 | - | - | - | - | - | 3.000 |
| GP BOMB IM PRODUCTION ENGINEERING | A |  | - | - | - | - | - | 4.900 | - | - | 4.900 | - | - | 4.900 | - | - | - | - | - | 4.900 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 1.000 | - | - | 1.000 | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 17.100 | - | - | 17.200 | - | - | 17.200 | $\cdot$ | - | - | - | - | 17.200 |
| Total |  |  | - | - | $\cdot$ | - | - | 17.100 | - | - | 17.200 | - | - | 17.200 | - | - | $\cdot$ | - | - | 17.200 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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| Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs |  |  |  |  | P-1 Line Item Number / Title: <br> 353190 / Massive Ordnance Penetrator (MOP) |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0604327F |  |  |  |  |
| Line Item MDAP/MAIS Code: 527 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 | 0.000 | 0.000 | 0.000 | 0.000 | - | 80.093 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 | 0.000 | 0.000 | 0.000 | 0.000 | - | 80.093 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 | 0.000 | 0.000 | 0.000 | 0.000 | - | 80.093 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Massive Ordnance Penetrator (MOP) is a $30,000 \mathrm{lb}$ class precision guided penetrator designed to defeat hard and deeply buried targets.
Funds may be used to address long lead items as well as emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
Funding for this exhibit is contained in PE 0208030F, project 353190

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## *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:
FY 2019 budget request includes funding for additional MOP assets, including warheads, guidance kits, fuzes, and associated support equipment.

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |
| :--- |
| Appropriation / Budget Activity / Budget Sub Activity: |
| $3011 \mathrm{~F} / 01$ / 13 |

## P-1 Line Item Number / Title: <br> 353190 / Massive Ordnance Penetrator (MOP)

Date: February 2018
Item Number / Title [DODIC]:
Massive Ordnance Penetrator (MOP)
ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.600 | 38.382 | 38.111 | 0.000 | 38.111 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |



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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | nts for Cod | B Items: N/ |  |  | Other Relat | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 503 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | FY 2019 Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | 210,892 | 28,596 | 27,320 | 7,899 | 28,101 | 36,000 | 10,800 | 7,200 | 8,700 | 6,600 | - | 336,108 |
| Gross/Weapon System Cost (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 | 337.942 | 268.002 | 314.833 | 268.061 | 0.000 | 8,556.833 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 | 337.942 | 268.002 | 314.833 | 268.061 | 0.000 | 8,556.833 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 | 337.942 | 268.002 | 314.833 | 268.061 | 0.000 | 8,556.833 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | $\square$ | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.024 | 0.024 | 0.026 | 0.030 | 0.026 | 0.027 | 0.031 | 0.037 | 0.036 | 0.041 | - | 0.025 |

## Description:

PY funding totals include $\$ 390.626 \mathrm{M}$ appropriated for Overseas Contingency Operations (OCO). These funds procure 17,847 JDAM guidance kits. CY funding totals include $\$ 390.577 \mathrm{M}$ request for Overseas Contingency Operations (OCO). These funds procure 16,990 JDAM guidance kits.

FY17 totals include amounts enacted in P.L.114-254


 progress.
 reinforced targets. This new warhead uses a modified JDAM tail kit hardback design which will increase tail kit unit costs for this variant.
 warfighter requirements driven by ongoing combat expenditures.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding may be used to increase production capacity in order to meet warfighter demand.
Funding for this exhibit contained in PE 0207583F.

| Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs |  |  |  |  |  | P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready) | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: 503 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | Joint Direct Attack Munition | P-5a, P-21 | A |  | 210,892 / 5,003.130 | 28,596/682.114 | 27,320 / 710.102 | 7,899 / 234.198 | 28,101/738.451 | 36,000 / 972.649 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 210,892 / 5,003.130 | 28,596 / 682.114 | 27,320 / 710.102 | 7,899 / 234.198 | 28,101 / 738.451 | 36,000 / 972.649 |

## *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

FY 2019 funding totals include $\$ 234.198 \mathrm{M}$ to procure 7,899 guidance kits and $\$ 738.451 \mathrm{M}$ in Overseas Contingency Operations (OCO) to procure 28,101 guidance kits.
 mixture of JDAM guidance kits for the MK-82, MK-83, MK-84, BLU-109 and BLU-137 as well as precision laser guidance sensors for the MK-82, and airborne test equipment for flight test.

This procurement is critical to replenish stockpiles supporting on-going warfighter missions in which JDAM comprises the majority of combat expenditures.


Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3011F / 01 / 13
ID Code (A=Service Ready, B=Not Service Ready) : A

P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition

Date: February 2018

## Item Number / Title [DODIC]:

Joint Direct Attack Munition

| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 210,892 | 28,596 | 27,320 | 7,899 | 28,101 | 36,000 |
| Gross/Weapon System Cost (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5,003.130 | 682.114 | 710.102 | 234.198 | 738.451 | 972.649 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.024 | 0.024 | 0.026 | 0.030 | 0.026 | 0.027 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

Flyaway - Joint Direct Attack Munition Cost

Non Recurring Cost

| Non Recurring <br> Engineering- JDAM <br> Facilitization | - | - | 4.281 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Non Recurring Cost | - | - | 4.281 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway - Joint Direct Attack Munition Cost | - | - | 4.281 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JDAM TAIL KIT ${ }^{(+)}$ | 0.022 | 210,892 | 4,580.445 | 0.022 | 28,596 | 635.756 | 0.022 | 27,320 | 600.540 | 0.023 | 3,886 | 87.894 | 0.023 | 32,114 | 738.451 | 0.023 | 36,000 | 826.345 |
| LASER SENSOR | 0.013 | 12,185 | 157.610 | 0.012 | 2,745 | 32.876 | 0.012 | 5,382 | 65.144 | 0.012 | 8,700 | 108.304 | - | - | - | 0.012 | 8,700 | 108.304 |
| Subtotal: Recurring Cost | - | - | 4,738.055 | - | - | 668.632 | - | - | 665.684 | - | - | 196.198 | - | - | 738.451 | - | - | 934.649 |
| Subtotal: Hardware Hardware End Item Cost | - | - | 4,738.055 | - | - | 668.632 | - | - | 665.684 | - | - | 196.198 | - | - | 738.451 | - | - | 934.649 |

Ancillary Equipment - Ancillary Equipment End Item Cost

| Recurring Cost |
| :--- |
| TEST EQUIPMENT |
| (CMBRE) |
| AIRBORNE TEST |
| EQUIPMENT |
| Subtotal: Recurring Cost |


| - | - |
| :--- | :--- | :--- |
| - | - |


| 7.735 | - | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 68.830 | - | - | 3.909 | - | - |
| 76.565 | - | - | 3.909 | - | - |


| - | - | - |  |
| :---: | :---: | :---: | :---: |
| 18.000 | - | - |  |
| 18.000 | - | - |  |


| - | - |
| ---: | ---: |
| 6.000 | - |
| 6.000 | - |


| - | - |
| :---: | :---: |
| - | - |
| - | - |

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$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01/ 13 |  |  |  | P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition |  |  |  | Item Number / Title [DODIC]: Joint Direct Attack Munition |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qtyach } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| JDAM TAIL KIT ${ }^{(+)}$ | $\checkmark$ | 2016 | BOEING / ST CHARLES, MO | SS/FPIF | AFLCMC Hill AFB | Feb 2018 | Feb 2018 | 6,826 | 0.022 | Y |  | Oct 2013 |
| JDAM TAIL KIT ${ }^{(+)}$ |  | 2017 | BOEING / ST CHARLES, MO | SS/FPIF | AFLCMC Hill AFB | Feb 2017 | Feb 2018 | 28,596 | 0.022 | Y |  | Oct 2013 |
| JDAM TAIL KIT ${ }^{(+)}$ |  | 2018 | BOEING / ST CHARLES, MO | SS/FPIF | AFLCMC Hill AFB | Feb 2018 | Feb 2019 | 27,320 | 0.022 | Y |  | Oct 2013 |
| JDAM TAIL KIT ${ }^{(+)}$ |  | 2019 | BOEING / ST CHARLES, MO | SS/FPIF | AFLCMC Hill AFB | Feb 2019 | Feb 2020 | 3,886 | 0.023 | $Y$ |  | Aug 2017 |
| JDAM TAIL KIT ${ }^{(+)}$ | $\checkmark$ | 2019 | BOEING / ST CHARLES, MO | SS/FPIF | AFLCMC Hill AFB | Feb 2019 | Feb 2020 | 32,114 | 0.023 | Y |  | Aug 2017 |

${ }^{(t)}$ indicates the presence of a P-21

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| Exhibit P-21, Production Schedule: PB 2019 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  | P-1 Line Item Number / Title: <br> 353620 / Joint Direct Attack Munition |  |  |  |  | Item Number / Title [DODIC]: Joint Direct Attack Munition |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2019 | 1-8-5 For 2019 | MAX For 2019 | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | Manufacturing PLT | Total After Oct 1 |
| 1 | $\begin{aligned} & \text { BOEING - ST CHARLES, } \\ & \text { MO } \end{aligned}$ | 7,501 | 18,900 | 45,000 | 0 | 0 | 0 | 0 | 15 | 5 | 12 | 17 |

${ }^{(\ddagger)}$ Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999 , all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between $1,000,000$ and $999,999,999$ all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0101125F | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: 468

| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 30 | 250 | - | 250 | 533 | - | - | - | - | 813 |
| Gross/Weapon System Cost (\$ in Millions) | 15.096 | 0.000 | 77.068 | 120.531 | 0.000 | 120.531 | 162.804 | 18.720 | 0.000 | 0.000 | 0.000 | 394.219 |
| Less PY Advance Procurement (\$ in Millions) | - | 0.000 | 0.000 | 11.239 | - | 11.239 | 52.731 | 0.000 | 0.000 | 0.000 | - | 63.970 |
| Net Procurement (P-1) (\$ in Millions) | 15.096 | 0.000 | 77.068 | 109.292 | 0.000 | 109.292 | 110.073 | 18.720 | 0.000 | 0.000 | 0.000 | 330.249 |
| Plus CY Advance Procurement (\$ in Millions) | - | 0.000 | 11.239 | 52.731 | - | 52.731 | 0.000 | 0.000 | 0.000 | 0.000 | - | 63.970 |
| Total Obligation Authority (\$ in Millions) | 15.096 | 0.000 | 88.307 | 162.023 | 0.000 | 162.023 | 110.073 | 18.720 | 0.000 | 0.000 | 0.000 | 394.219 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | 2.569 | 0.482 | - | 0.482 | 0.305 | - | - | - | - | 0.485 |

## Description:

 of nuclear weapons.




 support.

Funding for this exhibit contained in PE 0101125F

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:

 procurement of long lead, non-end item components that will be assembled into AUR Trainers, CMS end items, and Tailkit Assemblies.

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Exhibit P-5, Cost Analysis: PB 2019 Air Force

Appropriation / Budget Activity / Budget Sub Activity 3011F / 01 / 13

ID Code (A=Service Ready, B=Not Service Ready) : B

P-1 Line Item Number / Title: 354040 / B61

Date: February 2018

## Item Number / Title [DODIC]:

B61

| Resource Summary |  |  |  |  |  | Prior Years |  |  |  |  |  | FY 2019 Base |  |  | FY 2019 OCO |  | FY 2019 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | 30 |  |  | 250 |  | - |  | 250 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 15.096 |  | 0.000 |  | 77.068 |  |  | 531 |  | 0.000 |  | 120.531 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.000 |  |  | 239 |  | - |  | 11.239 |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 15.096 |  | 0.000 |  | 77.068 |  |  | 292 |  | 0.000 |  | 109.292 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 11.239 |  |  | 731 |  | - |  | 52.731 |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 15.096 |  | 0.000 |  | 88.307 |  |  | . 023 |  | 0.000 |  | 162.023 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.000 |  |  | . 000 |  | - |  | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | 2.569 |  |  | 482 |  | - |  | 0.482 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - B61 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware End Item $(T K A)^{(t)}$ | - | - | 5.207 | - | - | 0.000 | 0.664 | 30 | 19.906 | 0.224 | 206 | 46.179 | - |  | - | 0.224 | 206 | 46.179 |
| TKA Trainers ${ }^{(\dagger)}$ | - | - | - | - | - | - - | - | - | - | 0.157 | 44 | 6.900 | - |  | - | 0.157 | 44 | 6.900 |
| Subtotal: Recurring Cost | - | - | 5.207 | - | - | 0.000 | - | - | 19.906 | - | - | 53.079 | - |  | - | - | - | 53.079 |
| $\begin{aligned} & \text { Subtotal: Hardware - B61 } \\ & \text { Cost } \end{aligned}$ | - | - | 5.207 | . | - | 0.000 | - | - | 19.906 | - | - | 53.079 | - |  | - | - | - | 53.079 |
| Logistics - B61 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CMS | - | - | 3.378 | - | - | - - | - | - | 4.829 | - | - | 3.746 | - |  | - | - | - | 3.746 |
| Technical Data | - | - | - | - | - | - - | - | - | - | - | - | 1.174 | - |  | - | - | - | 1.174 |
| Subtotal: Non Recurring Cost | - | - | 3.378 | - | - | - | - | - | 4.829 | - | - | 4.920 | - |  | - | - | - | 4.920 |
| Subtotal: Logistics - B61 Cost | - | - | 3.378 | - | - | - - | - | - | 4.829 | - | - | 4.920 | - |  | - | - | - | 4.920 |
| Ancillary Equipment - B61 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TKA Containers | - | - | - | - | - | - - | - | - | 0.135 | - | - | 0.563 | - |  | - | - | - | 0.563 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 0.135 | - | - | 0.563 | - |  | - - | - | - | 0.563 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bomb Assembly (BA) Trainers | - | - | 6.511 | - | - | - - | - | - | 27.529 | - | - | 26.613 | - |  | - - | - | - | 26.613 |

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  |  | P-1 Line Item Number / Title: 354040 / B61 |  |  |  |  |  |  |  | Item Number / Title [DODIC]: B61 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Test Equipment (SATS) | - | - | - | - | - | - | - | - | - | - | - | 0.580 | - | - | - | - | - | 0.580 |
| T\&H Gear | - | - | - | - | - | - | - | - | 12.121 | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 6.511 | - | - | - | - | - | 39.650 | - | - | 27.193 | - | - | - | - | - | 27.193 |
| Subtotal: Ancillary <br> Equipment - B61 Cost | - | - | 6.511 | - | - | - | - | - | 39.785 | - | - | 27.756 | - | - | - | - | - | 27.756 |
| Support - 661 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA | - | - | - | - | - | - | - | - | 3.153 | - | - | 6.626 | - | - | 0.000 | - | - | 6.626 |
| NWC Mission Support | - | - | - | - | - | - | - | - | - | - | - | 1.351 | - | - | 0.000 | - | - | 1.351 |
| System T\&E | - | - | - | - | - | - | - | - | 9.395 | - | - | 18.060 | - | - | 0.000 | - | - | 18.060 |
| Training | - | - | - | - | - | - | - | - | - | - | - | 2.530 | - | - | 0.000 | - | - | 2.530 |
| Production Sustaining Engineering | - | - | - | - | - | - | - | - | - | - | - | 6.209 | - | - | 0.000 | - | - | 6.209 |
| Subtotal: Support - B61 Cost | - | - | - | - | - | - | - | - | 12.548 | - | - | 34.776 | - | - | 0.000 | - | - | 34.776 |
| Gross/Weapon System Cost | - | - | 15.096 | - | - | 0.000 | 2.569 | 30 | 77.068 | 0.482 | 250 | 120.531 | . | - | 0.000 | 0.482 | 250 | 120.531 |

$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> B61 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  | P-1 Line Item Number / Title: 354040 / B61 |  |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Hardware End Item (TKA) ${ }^{(\dagger)}$ |  | 2018 | Boeing / Various | SS /FPIF | Eglin AFB | Feb 2018 | Sep 2018 | 30 | 0.664 | N | Jan 2018 | Oct 2017 |
| Hardware End Item (TKA) ${ }^{(\dagger)}$ |  | 2019 | Boeing / Various | SS/FPIF | Eglin AFB | Nov 2018 | Aug 2019 | 206 | 0.224 | N | Oct 2018 | Dec 2017 |
| TKA Trainers ${ }^{\left({ }^{\text {( }} \text { ) }\right.}$ |  | 2019 | Boeing / Various | TBD | Eglin AFB | Nov 2018 | Aug 2019 | 44 | 0.157 | N | May 2019 | Dec 2017 |
| Advance Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware End Item (TKA) |  | 2018 | Boeing / Various | SS/FPIF | Eglin AFB | Feb 2018 | Sep 2018 | 250 | 0.045 | N | Jan 2018 | Oct 2017 |
| Hardware End Item (TKA) |  | 2019 | Boeing / Various | SS/FPIF | Eglin AFB | Jun 2019 | Aug 2019 | 250 | 0.211 | N | Oct 2018 | Dec 2017 |

${ }^{(\dagger)}$ indicates the presence of a P-21

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> B61 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 354040 / B61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { B } \\ A \\ \hline \\ A \\ N \\ \text { C } \\ \hline \end{gathered}$ |
|  |  |  |  | ACCEPT |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
| O  <br>  F <br> C R <br> R O | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { KRIUR } \\ \text { TO } 1 \\ \text { OCT } \\ 2019 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | F E B | M A R | A P R | M A Y | J N | J L | A | S E P | O c T | N | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M <br>  <br> R | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J N | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A U G | S E P |  |
| Hardware End Item (TKA) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 30 | 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | AF | 206 | 36 | 170 | 16 | 20 | 44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| TKA Trainers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2019 | AF | 44 | 8 | 36 | 4 | 4 | 4 |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A <br> P <br> R | $\underset{\mathrm{M}}{\mathrm{M}}$ | U | $\mathrm{J}_{\mathrm{J}}$ | A | S E P | - | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A <br>  <br> P <br> R | M | J | ${ }_{\text {J }}^{\text {u }}$ | A | $\stackrel{\text { S }}{\text { E }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 |  |  |  |  | P-1 Line Item Number / Title:$354040 \text { / B61 }$ |  |  |  |  | Item Number / Title [DODIC]: B61 |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2019 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2019 | 1-8-5 For 2019 |  | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | Boeing - Various | 206 | 550 | 550 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 11 |
| 2 | Boeing - Various | 44 | 50 | 50 | 0 | 2 | 9 | 11 | 8 | 2 | 9 | 11 |

"A" in the Delivery Schedule indicates the Contract Award Date
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999 , all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between $1,000,000$ and $999,999,999$ all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2019 Air Force |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: <br> Bombs |  |  |  |  | P-1 Line Item Number / Title:$354040 \text { / B61 }$ |  |  |  |  |  |  |  |
| Program Elements for Code B Items: 0101125F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |  |  |  |
| Line Item MDAP/MAIS Code: 468 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 11.239 | 52.731 | - | 52.731 | 0.000 | 0.000 | 0.000 | 0.000 | - | 63.970 |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 11.239 | 52.731 | - | 52.731 | 0.000 | 0.000 | 0.000 | 0.000 | - | 63.970 |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 11.239 | 52.731 | - | 52.731 | 0.000 | 0.000 | 0.000 | 0.000 | - | 63.970 |

## Description:

The purpose of this program element is to conduct and support United States Air Force (USAF) and Joint Department of Defense (DoD) / Department of Energy (DOE) acquisition activities for the modernization of nuclear weapons.

B61-12 Life Extension Program (LEP): The B61-12 LEP will integrate DOE efforts to extend the service life of the warhead with DoD efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoD-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 11) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU dated 28 Jun 12), the USAF is responsible for development, acquisition and delivery of a guided TKA and for All Up Round (AUR) technical integration, system qualification and fielding of the B61-12 variant on multiple platforms. The production effort for the B61 TKA includes the production and delivery of TKAs, accessories, spares, ancillary equipment, trainers, lot acceptance test assets, and support. Advance procurement is required for the purchase of long lead items and life of type buy components for the TKA, the AUR trainers, and associated nuclear support equipment, and code management systems prior to entry into Milestone C and the Full Rate Production decision.

Note: FY16 (Prior Year) included \$1.685M of Advance Procurement.

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| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2019 Air Force |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 | P-1 Line Item Number / Title: 354040 / B61 |  |  |  | P-5 Number / Title: <br> B61 |  |  |
| Cost Elements | FY 2019 |  |  |  |  |  |  |
|  | QPA <br> (Each) | Production Leadtime (Months) | Unit Cost (\$ M) | Contract Forecast Date | 2019 Qty (Each) | For FY | Total Cost Request (\$ M) |
| CFE |  |  |  |  |  |  |  |
| Hardware End Item (TKA) ${ }^{(\dagger)}$ | - | 18 | 0.211 | Jun 2019 | 250 |  | 52.731 |
| Total: CFE |  |  |  |  |  |  | 52.731 |
| Total Advance Procurement/Obligation Authority |  |  |  |  |  |  | 52.731 |
| Description: <br>  FY21. <br> $\left.{ }^{( }{ }^{( }\right)$indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit. |  |  |  |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/ |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 38.009 | 53.469 | 51.455 | 0.000 | 51.455 | 47.070 | 47.945 | 48.813 | 49.693 | - | 336.454 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 38.009 | 53.469 | 51.455 | 0.000 | 51.455 | 47.070 | 47.945 | 48.813 | 49.693 | - | 336.454 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 38.009 | 53.469 | 51.455 | 0.000 | 51.455 | 47.070 | 47.945 | 48.813 | 49.693 | - | 336.454 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PAD) are critical explosive items used to activate pilot/aircrew life-support/survival emergency-release and aircrew-escape/ejection systems, other aircrew flight and survival equipment, aerial refueling and data destruction systems. CAD/PAD components are used in every USAF mission area, i.e. combat, training, force protection, search \& rescue and humanitarian relief. These explosive devices have finite lives and are replaced based on time-change, shelf/service life requirements and during scheduled aircraft maintenance. The CAD/PAD category includes items such as the Universal Water Activated Release System (UWARS), parachute-release cartridges, Shield Mild-Detonating Cord (SMDC), rocket motors, rocket catapults, time-delay cartridges, initiators, rocket catapults, gas generators, etc.

CAD/PAD items are purchased for AF by the CAD/PAD Joint Program Office at Hill AFB, UT.
Funding for this exhibit contained in PE 0708070F.

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

 procedures for installed devices. In accordance with T.O.00-20-1, the aircraft becomes grounded until reliable assets are obtained and installed.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: Cad/Pad |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 355100 / Cad/Pad |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BOMBER AIRCRAFT | A |  | - | - | - | - | - | 5.851 | - | - | 7.964 | - | - | 6.400 | - | - | 0.000 | - | - | 6.400 |
| CARGO AIRCRAFT | A |  | - | - | - | - | - | 2.822 | - | - | 10.040 | - | - | 13.000 | - | - | - | - | - | 13.000 |
| FIGHTER AIRCRAFT | A |  | - | - | - | - | - | 7.740 | - | - | 10.535 | - | - | 8.855 | - | - | - | - | - | 8.855 |
| TRAINING AIRCRAFT | A |  | - | - | - | - | - | 17.480 | - | - | 16.326 | - | - | 14.000 | - | - | - | - | - | 14.000 |
| COMMON EGRESS ITEMS | A |  | - | - | - | - | - | 2.061 | - | - | 5.806 | - | - | 6.000 | - | - | - | - | - | 6.000 |
| COMMON LIFE SUPPORT ITEMS | A |  | - | - | - | - | - | 1.963 | - | - | 2.672 | - | - | 3.000 | - | - | - | - | - | 3.000 |
| COMMON MISC ITEMS | A |  | - | - | - | - | - | 0.092 | - | - | 0.126 | - | - | 0.200 | - | - | ${ }^{-}$ | - | - | 0.200 |
| Subtotal: Uncategorized |  |  | - | - | - | $\cdot$ | - | 38.009 | $\cdot$ | - | 53.469 | - | - | 51.455 | - | - | 0.000 | - | - | 51.455 |
| Total |  |  | - | - | - | - | - | 38.009 | - | - | 53.469 | - | - | 51.455 | - | - | 0.000 | - | - | 51.455 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ments for Cod | B Items: N/A |  |  | Other Relat | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.714 | 5.921 | 6.038 | 0.000 | 6.038 | 6.133 | 6.247 | 6.361 | 6.474 | - | 42.888 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.714 | 5.921 | 6.038 | 0.000 | 6.038 | 6.133 | 6.247 | 6.361 | 6.474 | - | 42.888 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.714 | 5.921 | 6.038 | 0.000 | 6.038 | 6.133 | 6.247 | 6.361 | 6.474 | - | 42.888 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Explosive Ordnance Disposal (EOD) materials support Civil Engineer, EOD, Security Forces Military Working Dogs, RED HORSE, Special Forces operations and training, and formal schools with demolition munitions. Used in deployment packages, base response assets and range clearance resources in support of peacetime and contingency operations. These items are certified for use by the Air Force NonNuclear Munitions Safety Board (NNMSB) and the Department of Defense Explosives Safety Board (DDESB).

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit is contained in PE 0204424F.

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 are used in deployment packages, base response assets and range clearance resources in support of peacetime and contingency operations.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / $01 / 15$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 355450 / Explosive Ordnance Disposal (EOD) |  |  |  |  |  |  |  | Aggregated Items Title: <br> Explosive Ordnance Disposal (EOD) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (AA62) 12 GAUGE M274 ULTRA CARTRIDGE | A |  | - | - | - | 0.000 | 314 | 0.002 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (M023) - CHARGE, DEMOLITION C4M112 | A |  | - | - | - | 0.000 | 58,235 | 2.659 | 0.000 | 74,103 | 2.700 | 0.000 | 26,420 | 1.000 | - | - | - | 0.000 | 26,420 | 1.000 |
| (M031) CHG DEMO TNT 1/2LB | A |  | - | - | - | - | - | - | - | - | - | 0.000 | 9,346 | 0.040 | - | - | - | 0.000 | 9,346 | 0.040 |
| (M097) INERT, NONELECTRIC CAP | A |  | - | - | - | - | - | - | - | - | 0.000 | 0.000 | 149 | 0.004 | - | - | - | 0.000 | 149 | 0.004 |
| (M130) - CAP BLASTING ELECTRIC M6 | A |  | - | - | - | 0.000 | 12,077 | 0.500 | 0.000 | 18,036 | 0.600 | 0.000 | 13,387 | 0.568 | - | - | - | 0.000 | 13,387 | 0.568 |
| (M131) - CAP, BLASTING NON-ELECTRIC-M7 | A |  | - | - | - | 0.000 | 9,285 | 0.200 | 0.000 | 13,272 | 0.300 | 0.000 | 16,129 | 0.500 | - | - | - | 0.000 | 16,129 | 0.500 |
| (M456) CORD ASBLY DETONATING | A |  | - | - | - | 0.000 | 238,095 | 0.100 | 0.000 | 241,991 | 0.100 | 0.000 | 232,558 | 0.100 | - | - | - | 0.000 | 232,558 | 0.100 |
| (M591) - DYNAMITE MILITARY M1 1LB BLOCK | A |  | - | - | - | 0.000 | 3,636 | 0.004 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| (M980) - DETA SHEET | A |  | - | - | - | 0.000 | 6,393 | 0.200 | - | - | 0.000 | 0.000 | 6,105 | 0.200 | - | - | - | 0.000 | 6,105 | 0.200 |
| (M993) CHARGE, DEMO, C1.5 DETA SHEET . 062 | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | 0.000 | 1,114 | 0.400 | - | - | - | 0.000 | 1,114 | 0.400 |
| (ML47) - B CAP W/30 FT SHOCK TUBE | A |  | - | - | - | 0.000 | 337 | 0.015 | - | - | 0.000 | 0.000 | 138 | 0.010 | - | - | - | 0.000 | 138 | 0.010 |
| (MM24) DEMO ECT, MK 142, 300GPF | A |  | - | - | - | 0.000 | 7,991 | 0.150 | 0.000 | 10,655 | 0.200 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MM30) CHARGE, 20 GRAM MK 140 MOD 0 | A |  | - | - | - | 0.007 | 1 | 0.007 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MM51) DEMO ECT, MK 143, 600GPF | A |  | - | - | - | 0.000 | 843 | 0.100 | 0.000 | 1,686 | 0.200 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MM52) DEMO ECT, MK144, 1200GPF | A |  | - | - | - | 0.000 | 2,112 | 0.150 | 0.000 | 2,816 | 0.200 | 0.000 | 1,256 | 0.112 | - | - | - | 0.000 | 1,256 | 0.112 |
| (MM53) - DEMO ECT, MK145, 2400GPF | A |  | - | - | - | 0.000 | 2,608 | 0.300 | 0.000 | 808 | 0.093 | 0.000 | 1,777 | 0.200 | - | - | - | 0.000 | 1,777 | 0.200 |
| (MM54) - EXPLOSIVE CUTTING TAPE | A |  | - | - | - | 0.000 | 4,460 | 0.400 | 0.000 | 6,689 | 0.600 | 0.000 | 5,505 | 0.600 | - | - | - | 0.000 | 5,505 | 0.600 |
| (MM56) DETONATOR, | A |  | - | - |  | - | - | 0.000 | - | - | 0.000 | 0.000 | 600,000 | 0.400 | - | - | - | 0.000 | 600,000 | 0.400 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 355450 / Explosive Ordnance Disposal (EOD) |  |  |  |  |  |  |  | Aggregated Items Title: <br> Explosive Ordnance Disposal (EOD) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| PERCUSSION 175MS DELAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (MNO7) - N/E 70FT DELAY SHOCK TUBE | A |  | - | - | - | 0.000 | 2,054 | 0.039 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN06) M14 SET UP, N/E CAP WITH TIME FUZE | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN08) - IGNITER TIME BLASTING | A |  | - | - | - | 0.000 | 9,293 | 0.200 | 0.000 | 23,102 | 0.200 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| $\begin{aligned} & \text { (MN23) - DEMO ECT, } \\ & \text { MK152, 900GPF } \\ & \text { (LHFLSC) } \end{aligned}$ | A |  | - | - | - | - | - | 0.338 | 0.000 | 4,807 | 0.269 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN82) - SEMTEX A | A |  | - | - | - | - | - | - | 0.000 | 3,425 | 0.100 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN85) - DYNAMITE, 75\% AMMON NITRATE | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN86) CAP, BLAST NON-ELEC W/200 FT MINI-TUBE M19 | A |  | - | - | - | - | - | - | - | - | - | - | - | 0.357 | - | - | - | - | - | 0.357 |
| (MN88) - SHOCK TUBE W/BLASTING CAP 500 | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MN90) - M-13 1,000 FT SHOCK TUBE W/ CAP M23 | A |  | - | - | - | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (MP29) DETONATOR, NONELEC, DUEL 40 FT MK 164 MOD 0 | A |  | - | - | - | - | - | - | - | - | - | - | - | 0.400 | - | - | - | - | - | 0.400 |
| (SS01) - CTG, 50 CAL ELEC BLANK MK209 MOD 1 | A |  | - | - | - | 0.300 | 1 | 0.300 | 0.000 | 1,860 | 0.200 | 0.000 | 7,239 | 0.886 | - | - | - | 0.000 | 7,239 | 0.886 |
| $\begin{aligned} & \text { (YY34) - SHOCK } \\ & \text { TUBE } \end{aligned}$ | A |  | - | - | - | 0.000 | 98,039 | 0.050 | 0.000 | 196,078 | 0.100 | 0.000 | 384,615 | 0.200 | - | - | - | 0.000 | 384,615 | 0.200 |
| PMA | A |  | - | - | - | - | - | - | - | - | 0.059 | - | - | 0.061 | - | - | - | - | - | 0.061 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 5.714 | - | - | 5.921 | - | - | 6.038 | - | - | - | - | - | 6.038 |
| Total |  |  | - | - | - | - | - | 5.714 | - | - | 5.921 | - | - | 6.038 | - | - | - | - | - | 6.038 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items

| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready): |  |  | Program Ele | ments for Cod | e B Items: |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.740 | 0.678 | 0.524 | 0.000 | 0.524 | 0.533 | 0.543 | 0.554 | 0.564 | - | 4.136 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.740 | 0.678 | 0.524 | 0.000 | 0.524 | 0.533 | 0.543 | 0.554 | 0.564 | - | 4.136 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.740 | 0.678 | 0.524 | 0.000 | 0.524 | 0.533 | 0.543 | 0.554 | 0.564 | - | 4.136 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 subassemblies required for follow-on sustainment of end items. Munitions replenishment spare levels are based on item-specific failure/demand driven computations.
 kits.

PE associated with this P-1 Line is 0208030F

## Justification:

FY19 funds are used for spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items
 stockpiles as required and receive test and training allocations annually based on current-year requirements.

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| Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items |  |  |  |  |  | P-1 Line Item Number / Title: 355970 / Modifications |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.573 | 1.409 | 1.270 | 0.000 | 1.270 | 1.291 | 1.313 | 1.337 | 1.361 | - | 8.554 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.573 | 1.409 | 1.270 | 0.000 | 1.270 | 1.291 | 1.313 | 1.337 | 1.361 | - | 8.554 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.573 | 1.409 | 1.270 | 0.000 | 1.270 | 1.291 | 1.313 | 1.337 | 1.361 | - | 8.554 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This budget line encompasses both new and on-going modification efforts for guided bomb and munitions systems. Permanent modifications consist of configuration changes to in-service systems and equipment which correct material/other deficiencies or add/delete capability. Safety modifications correct deficiencies which may create personnel, system or equipment hazards.

The FY17 funding request was reduced by $\$ 0.878$ million to account for the availability of prior year execution balances.
Funding for this exhibit contained in PE 0208030F

## Justification:

The FY2019 funding request is a low cost mod for guided bomb and munitions systems that reflects estimated costs based on historical funding requirements and projected future requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
 Items

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | nts for Cod | B Items: N |  |  | Other Relate | Program El | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2017 | FY 2018 | $\begin{gathered} \text { FY } 2019 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.156 | 5.047 | 4.604 | 0.000 | 4.604 | 4.677 | 4.764 | 4.850 | 4.937 | - | 34.035 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.156 | 5.047 | 4.604 | 0.000 | 4.604 | 4.677 | 4.764 | 4.850 | 4.937 | - | 34.035 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.156 | 5.047 | 4.604 | 0.000 | 4.604 | 4.677 | 4.764 | 4.850 | 4.937 | - | 34.035 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This category includes various munitions items to support air base ground defense, air rescue and aircrew/ground training.
 stockpiles as required and receive test and training allocations annually based on current-year requirements.

All items listed on the following P-40A have an annual procurement value of less than $\$ 5$ million and are code A .
 defense missions, domestic emergency responses, and providing military support to civil authorities.

PEs associated with this P-1 Line are 0207580F and 0207599F.

## Justification:

 support missions.

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## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares 356010 / Flares

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 141.240 | 147.481 | 125.286 | 12.116 | 137.402 | 111.116 | 125.187 | 164.319 | 167.276 | - | 994.021 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 141.240 | 147.481 | 125.286 | 12.116 | 137.402 | 111.116 | 125.187 | 164.319 | 167.276 | - | 994.021 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 141.240 | 147.481 | 125.286 | 12.116 | 137.402 | 111.116 | 125.187 | 164.319 | 167.276 | - | 994.021 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |

## Description:

PY2017 funding totals includes $\$ 6.531 \mathrm{M}$ appropriated for Overseas Contingency Operations.
CY2018 funding totals includes $\$ 3.498 \mathrm{M}$ appropriated for Overseas Contingency Operations.
The following Weapon System Cost Elements are represented in this P-1 line:
-(L410) M206 Flare is an infrared countermeasures flare used by A-10, F-16, C-17, C-130, and other aircraft against heat seeking missiles. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
-(L461) MJU-10 flare which has been used primarily by the F-15 aircraft against heat seeking missiles will be replaced in FY18 by the MJU-53/B. The MJU-53/B is procured by the USAF. The USAF will no longer procure the MJU-10 which has been done through SMCA.
-(L462) MJU-23 Infrared Countermeasure Flare used on the B-1B aircraft against heat seeking missiles. The MJU-23 flare includes a specially designed high ejection cartridge (BBU-46) that propels the burning flare pellet upward with sufficient velocity to clear the aircraft during high speed, low level flight.
-(L463) MJU-7 IR Flare is an infrared countermeasures flare applicable to the A-10, F-15, F-16, F-22 and other aircraft. It creates an infrared signature and acts as a decoy against heat seeking missiles. Will be replaced by MJU-53 in 2020. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
-(LA36) MJU-62 Flare is a multi-spectral countermeasure designed to be used as part of a flare cocktail pattern to confuse advanced infrared threat missiles. Used primarily on the C-17 and C5 aircraft which require a 1 inch by 2 inch by 8 inch flare size to accommodate desired cocktail flare mixes. MJU-62 is being evaluated for use on other types of aircraft such as $\mathrm{F}-16$, $\mathrm{A}-10$ and HH 60 . This item is procured through USAF.
-(LA66) The MJU-61 is an infrared countermeasure flare used by F-35 aircraft against heat seeking missiles. This item is procured through the Navy PMA 272.

## Appropriation / Budget Activity / Budget Sub Activity: <br> P-1 Line Item Number / Title: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares 356010 / Flares

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

## Line Item MDAP/MAIS Code: N/A





 approved for use on the $\mathrm{C}-130, \mathrm{~A}-10$ and $\mathrm{F}-16$ aircraft with on-going tests for use on other platforms. This item is procured through the Navy. PMA-272 and USAF.
 Navy PMA 272.

 procured through USAF.
 ALE-47 dispenser system which could possibly eliminate the ALA-17 and provide the SPO with the ability to use common flares.
 to be qualified on several-fixed wing aircraft in the near future. This item is procured through the US Air Force.
 primarily used on the HH-60. This item is procured by the US Army/SOCOM.
-Items Less Than Five Million Dollars: All items have an annual procurement of less than $\$ 5,000,000$ and are Code A .
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs:0208030F and 0207599F.

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares 356010 / Flares


 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

 to-air and ground-to-air infrared and heat seeking attack weapon systems and missiles.

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles
Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements.

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## Remarks:

The Single Manager for Conventional Ammunition (SMCA), Department of Army provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.
${ }^{(\dagger)}$ indicates the presence of a $\mathrm{P}-5 \mathrm{a}$

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F / 01 / 16 |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  | Item Number / Title [DODIC]: (L410) M206 FLARE |  |  |  |  |
|   <br>  O <br> Cost Elements c <br> O  | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost $(\$ M)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| M206 FLARE - L410 | 2017 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA | MIPR | ACC-ROCK ISLAND | Mar 2017 | Mar 2018 | 599,066 | 0.000 | Y |  |  |
| M206 FLARE - L410 | 2018 | -KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA | MIPR | ACC-ROCK ISLAND | Mar 2018 | Mar 2019 | 513,326 | 0.000 | Y |  |  |
| M206 FLARE - L410 | 2019 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA | MIPR | ACC-ROCK ISLAND | Mar 2019 | Mar 2020 | 645,009 | 0.000 | Y |  |  |

## Remarks:

The Single Manager for Conventional Ammunition (SMCA/Army) procures the M206 Flare for the Air Force and other Military Services having requirements for the same or similar items. SMCA establishes contracts based on the competitive environment among qualified sources.

## UNCLASSIFIED



## Remarks:

 materials.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F / 01 / 16 |  |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  | Item Number / Title [DODIC]: (L461) MJU-10 FLARE |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| MJU-10 FLARE - L461 |  | 2017 | KILGORE AND ARMTEC / TOONE, <br> TN AND COACHELLA, CA | MIPR | ACC-ROCK ISLAND | Mar 2017 | Mar 2018 | 27,435 | 0.000 | Y |  |  |
| MJU-10 FLARE - L461 |  | 2018 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA | MIPR | ACC-ROCK ISLAND | Mar 2018 | Mar 2019 | 13,538 | 0.000 | Y |  |  |

## Remarks:

The Single Manager for Conventional Ammunition (SMCA/Army) procures the MJU-10 Countermeasure Flare for the Air Force and other Military Services having requirements for the same or similar items.
SMCA establishes contracts based on the competitive environment among qualified sources.

## UNCLASSIFIED



## Remarks:

 materials.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3011 \mathrm{~F} / 01 / 16$ |  |  |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  |  | Item Number / Title [DODIC]: (L463) MJU-7A/B, IR FLARE |  |  |  |  |
| Cost Elements | O c O | FY | Contractor and Location |  |  | Method/Type or Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Available | RFP Issue Date |
| MJU-7A/B IR FLARE - L463 |  | 2017 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA |  |  | MIPR | ACC-ROCK ISLAND | Mar 2017 | Mar 2018 | 302,617 | 0.000 | Y |  |  |
| MJU-7A/B IR FLARE - L463 |  | 2018 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA |  |  | MIPR | ACC-ROCK ISLAND | Mar 2018 | Mar 2019 | 131,928 | 0.000 | Y |  |  |
| MJU-7A/B IR FLARE - L463 |  | 2019 | KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA |  |  | MIPR | ACC-ROCK ISLAND | Mar 2019 | Feb 2020 | 209,710 | 0.000 | Y |  |  |

## Remarks:

The Single Manager for Conventional Ammunition (SMCA/Army) procures the MJU-7 Infrared Flare for the Air Force and other Military Services having requirements for the same or similar items. SMCA establishes contracts based on the competitive environment among qualified sources.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: <br> (LA21) MJU-53/B IR CM FLARE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { mAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| UNCATEGORIZED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (LA21) MJU-53/ B INFRARED COUNTERMEASURE FLARE | A |  | - | - | - | 0.000 | 208,796 | - 13.718 | 0.000 | 579,973 | 43.498 | 0.000 | 400,000 | 30.000 | 0.000 | 161,546 | 12.116 | 0.000 | 561,546 | 42.116 |
| Subtotal: UNCATEGORIZED |  |  | - | - | - | - | - | 13.718 | - | - | 43.498 | - | - | 30.000 | - | - | 12.116 | - | - | 42.116 |
| Total |  |  | - | - | - | - | - | 13.718 | - | - | 43.498 | - | - | 30.000 | - | - | 12.116 | - | - | 42.116 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> The MJU-53 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01/ 16 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  |  |  |  | Aggregated Items Title: (LA66) MJU-61 IR CM FLARE |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (LA66) MJU-61 IR CM Flare | A |  | - | - | - | 0.000 | 53,333 | 4.000 | 0.000 | 60,000 | 4.500 | 0.000 | 83,814 | ${ }^{6.286}$ | - | - | - | 0.000 | 83,814 | 6.286 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 4.000 | - | - | 4.500 | - | - | 6.286 | - | - | - | - | - | 6.286 |
| Total |  |  | - | - | - | - | - | 4.000 | - | - | 4.500 | - | - | 6.286 | - | - | - | - | - | 6.286 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 356010 / Flares |  |  |  |  |  |  |  | Aggregated Items Title: (LY12) ALA-17 FLARE CARTRIDGE |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\left\lvert\, \begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}\right.$ | $\begin{array}{\|l\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (LY17) ALA-17 Flare Cartridge | A |  | - | - | - | 0.001 | 16,548 | 10.150 | 0.001 | 7,862 | 5.000 | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 10.150 | - | - | 5.000 | - | - | - | - | - | - | - | - |  |
| Total |  |  | - | - | - | - | - | 10.150 | - | - | 5.000 | - | - | - | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

## 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes 356120 / Fuzes

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/A |  |  | Other Relat | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 239.252 | 71.062 | 109.358 | 81.000 | 190.358 | 166.722 | 213.692 | 247.553 | 252.009 | - | 1,380.648 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 239.252 | 71.062 | 109.358 | 81.000 | 190.358 | 166.722 | 213.692 | 247.553 | 252.009 | - | 1,380.648 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 239.252 | 71.062 | 109.358 | 81.000 | 190.358 | 166.722 | 213.692 | 247.553 | 252.009 | - | 1,380.648 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

CY funding includes $\$ 47 \mathrm{M}$ requested for Overseas Contingency Operations.
The following Weapon System Cost Elements are represented in this P-1 line:

- FMU-152A/B Joint Programmable Fuze (JPF) (EC11) is a multi-function unitary fuze developed and procured for the Joint Direct Attack Munition and other conventional inventory weapons. The FMU-152A/ B provides a highly reliable bomb fuze with multiple arm times, instantaneous and multiple short and long delay detonation times, hard target survivability, cockpit programmability, and increased service/shelf life. The JPF is compatible with MK-80 series guided and unguided bombs. It has replaced and/or supplemented the FMU-139A/B and FMU-139C/B, FMU-143, FMU-124, and M904/M905 fuzes, and provides fuzing capability for hard target, general purpose, and guided bombs. This item is procured through the Air Force Lifecycle Management Center (AFLCMC), Eglin AFB, Florida. The Air Force is the lead service for procurement.
-The FMU-139D/B is a Navy led general purpose fuze Engineering Change Proposal (ECP) program to replace the FMU-139C/B and FMU-152A/B in the Navy and Air Force inventories, respectively. It is a low cost option that met both service requirements for a better buying power business case. The USAF will evaluate its penetration characteristics in FY19. The contract for this effort was competitively awarded by the Navy, 17 SEP 15. The ECP is being qualified and tested with an AF production buy decision in 3QFY18 and production deliveries beginning in 3QFY19 and beyond.
- DSU-33D/B Proximity Sensor (KY70) is a battery operated, RF, Doppler radar proximity sensor. It is used to provide low altitude proximity function to the bomb fuze. The sensor interfaces with FMU-139 and FMU-152 fuzes. This line item includes existing sensor production, Engineering Change Proposals (ECPs), and product improvement efforts, for example, modifications to eliminate obsolescence. DSU-33D/B will be replaced by C-HOBS. This item will be procured through the Army SMCA.
- Cockpit-selectable Height of Burst Sensor (C-HOBS) - C-HOBS is a radar proximity sensor that provides high precision variable proximity function to the fuze system. The sensor will provide manual and cockpit selectable heights of burst, precision height sensing, and possible terrain discrimination. The sensor will interface with various weapons systems. This program will be competitively awarded in FY 18 with production starting in FY20.
- Hard Target Void Sensing Fuze (HTVSF) (EE27), FMU-167 is an advanced system designed to provide fuzing and void sensing functions, enabling a weapon to penetrate and destroy hardened, deeply buried targets protected by multiple layers of soil and/or reinforced concrete. The HTVSF provides for in-flight cockpit programmability, safing and arming, multi-function (time delay and void sensing) and multi-delay arming capabilities. The United States Air Force (USAF) and Department of the Navy (DON) will employ HTVSF in penetrator warheads, contributing to the ability to strike and functionally defeat high value/high


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P-1 Line \#16
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| Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes |  |  |  |  |  | P-1 Line Item Number / Title: 356120 / Fuzes |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A P |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | (ED29) FMU-143S/B 60 MIL SEC FUZE | P-5a | A |  | 1 | - / 10.000 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | (ED51) FMU-152 FUZE SYSTEM, UNIVERSAL |  |  |  | - 1 - | - /148.144 | - 146.860 | - 1 - | - 137.000 | - 137.000 |
| P-5 | (KY70) DSU-33D/B PROX SENSOR | P-5a | A |  | - 1 - | - /13.363 | - / 14.062 | - 1- | - 1 - | - 1- |
| P-5 | FMU-139D/B | P-5a | A |  | - 1 - | 1/14.439 | 2,409 / 10.000 | 23,414/77.454 | $\begin{gathered} -1- \\ -144.000 \end{gathered}$ | 23,414/77.454 |
| P-5 | (EE27) FMU-167 HTVSF | P-5a | A |  | - 1 - | - / 53.306 | - 10.140 | - /31.904 |  | - 175.904 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 1239.252 | - 171.062 | - /109.358 | - 181.000 | - / 190.358 |
|  |  |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements. |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3011F / 01 / 18ID Code (A=Service Ready, B=Not Service Ready) : A

| (A=Service Ready, B=Not Service Ready) : A $\quad$ MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 10.000 | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 10.000 | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 10.000 | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Date: February 2018

## Item Number / Title [DODIC]:

(ED29) FMU-143S/B 60 MIL SEC FUZE

P-1 Line Item Number / Title: 356120 / Fuzes

MDAP/MAIS Code:
Gross/Weapon System Unit Cost (\$ in Millions)
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |

## Hardware - Hardware End Item Cost

## Recurring Cost

| LOAD, ASSEMBLE, PACK (LAP) ${ }^{\text {( })}$ | - | - | - | 0.006 | 1,512 | 8.529 | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PA60 CONTAINER | - | - | - | 0.000 | 1,549 | 0.049 | - | - | - | - | - | - | - | - | - | - | - | - |
| PBXN-11 | - | - | - | 0.000 | 513 | 0.021 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 8.599 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware Hardware End Item Cost | - | - | - | - | - | 8.599 | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Support End Item |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| QUALITY ASSURANCE | - | - | - | - | - | 0.006 | - | - | - | - | - | - | - | - | - | - | - | - |
| FIRST ARTICLE TEST | - | - | - | - | - | 1.350 | - | - | - | - | - | - | - | - | - | - | - | - |
| PRODUCTION ENGINEERING | - | - | - | - | - | 0.045 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 1.401 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - | - |

## Remarks:


 fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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| Exhibit P-5, Cost Analysis: PB 2019 Air Force |  |  | Date: February 2018 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18 | P-1 Line Item Number / 356120 / Fuzes |  | Item Number / Title [DODIC]: (ED29) FMU-143S/B 60 MIL SEC FUZE |
| ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready) : $A$ |  | MDAP/MAIS Code: |  |

$\left.{ }^{( }+\right)$indicates the presence of a P-5a

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 356120 / Fuzes |  |  |  |  |  |  |  | Aggregated Items Title: (ED51) FMU-152 FUZE SYSTEM, UNIVERSAL |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FMU-152 FUZE SYSTEM UNIVERSAL | A |  | - | - | - | 0.003 | 49,381 | 148.144 | 0.004 | 11,715 | 46.860 | - | - | - | 0.004 | 10,000 | 37.000 | 0.004 | 10,000 | 37.000 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | $\cdot$ | - | 148.144 | - | $\cdot$ | 46.860 | - | - | - | - | $\cdot$ | 37.000 | - | - | 37.000 |
| Total |  |  | - | - | - | - | - | 148.144 | - | - | 46.860 | - | - | - | - | - | 37.000 | - | - | 37.000 |

## Remarks:



 The Air Force is the lead service for procurement.

## UNCLASSIFIED



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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18 |  |  |  | P-1 Line Item Number / Title: 356120 / Fuzes |  |  |  | Item Number / Title [DODIC]: (KY70) DSU-33D/B PROX SENSOR |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| DSU-33D/B PROX FUZE |  | 2017 | ATK TACTICAL SYSTEMS CO. I Rocket Center, WV | MIPR | ACC-ROCK ISLAND | Apr 2017 | Apr 2018 | 4,607 | 0.003 | Y |  |  |
| DSU-33D/B PROX FUZE |  | 2018 | ATK TACTICAL SYSTEMS CO. I Rocket Center, WV | MIPR | ACC-ROCK ISLAND | Apr 2018 | Apr 2019 | 2,812 | 0.005 | Y |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3011F / 01 / 18ID Code (A=Service Ready, B=Not Service Ready) : A

${ }^{(t)}$ indicates the presence of a P-5a

## P-1 Line Item Number / Title:

 356120 / FuzesDate: February 2018

## Item Number / Title [DODIC]:

FMU-139D/B

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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18 |  |  |  | P-1 Line Item Number / Title: 356120 / Fuzes |  |  |  | Item Number / Title [DODIC]: <br> FMU-139D/B |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| FMU-139 D/B Fuzes |  | 2018 | Orbital ATK / Rocket Center, WV | C/FFP | AFLCMC/EB - Weapons | Jun 2018 | Jun 2018 | 2,409 | 0.003 | Y |  |  |
| FMU-139 D/B Fuzes |  | 2019 | Orbital ATK / Rocket Center, WV | C/FFP | AFLCMC/EB - Weapons | Sep 2019 | Sep 2019 | 23,414 | 0.003 | Y |  |  |

Exhibit P-5, Cost Analysis: PB 2019 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3011F / 01 / 18ID Code (A=Service Ready, B=Not Service Ready) : A

| \|D Code (A=Service Ready, B=Not Service Ready) . A |  |  |  |  |  |  |  |  |  | P/MA | ode: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Prior Years |  |  | FY 2017 |  | FY 2018 |  | FY 2019 Base |  |  | FY 2019 OCO |  | FY 2019 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 53.306 |  | 0.14 |  |  | 904 |  | 44.000 |  | 75.904 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | 0.00 |  |  | 000 |  | - |  | 0.000 |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | 53.306 |  | 0.14 |  |  | 904 |  | 44.000 |  | 75.904 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 000 |  | - |  | 0.000 |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 53.306 |  | 0.14 |  |  | 904 |  | 44.000 |  | 75.904 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 000 |  | 0.000 |  | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hard Target Void Sensing Fuze CLIN $1001^{(t)}$ | - | - | - | 0.015 | 3,313 | 49.699 | - | - | - | 0.018 | 1,681 | 30.250 | 0.018 | 2,444 | 44.000 | 0.018 | 4,125 | 74.250 |
| Subtotal: Recurring Cost | - | - | - | - | - | 49.699 | - | - | - | - | - | 30.250 | - | - | 44.000 | - | - | 74.250 |
| Subtotal: Hardware Hardware End Item Cost | - | - |  | - | - | 49.699 | - | - | - | - | - | 30.250 | - | - | 44.000 | - | - | 74.250 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management Administration | - | - | - | - | - | 1.058 | - | - | 0.140 | - | - | 1.654 | - | - | - | - | - | 1.654 |
| Testing | - | - | - | - | - | 1.600 | - | - | - | - | - | - | - | - | - | - | - | - |
| Life Cycle Surveillance Test | - | - | - | - | - | 0.949 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 3.607 | - | - | 0.140 | - | - | 1.654 | - | - | - | - | - | 1.654 |
| Gross/Weapon System Cost | - | - | - | - | - | 53.306 | - | - | 0.140 | - | - | 31.904 | - | - | 44.000 | - | - | 75.904 |

$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18 |  |  |  | P-1 Line Item Number / Title: 356120 / Fuzes |  |  |  | Item Number / Title [DODIC]: (EE27) FMU-167 HTVSF |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Hard Target Void Sensing Fuze CLIN 1001 |  | 2019 | Orbital ATK / Rocket Center, WV | C/FFP | AFLCMC/EB - Weapons | Dec 2018 | Jun 2019 | 1,681 | 0.018 | Y |  |  |
| Hard Target Void Sensing Fuze CLIN 1001 | $\checkmark$ | 2019 | Orbital ATK / Rocket Center, WV | C/FFP | AFLCMC/EB - Weapons | Sep 2019 | Mar 2020 | 2,444 | 0.018 | Y |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2017 | FY 2018 | $\text { FY } 2019$ Base | $\begin{gathered} \text { FY } 2019 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2019 \\ \text { Total } \end{gathered}$ | FY 2020 | FY 2021 | FY 2022 | FY 2023 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 175.549 | 37.459 | 28.611 | 64.502 | 8.500 | 73.002 | 32.106 | 26.800 | 33.389 | 28.043 | - | 434.959 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 175.549 | 37.459 | 28.611 | 64.502 | 8.500 | 73.002 | 32.106 | 26.800 | 33.389 | 28.043 | - | 434.959 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 175.549 | 37.459 | 28.611 | 64.502 | 8.500 | 73.002 | 32.106 | 26.800 | 33.389 | 28.043 | - | 434.959 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - - | - | - - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 requiring small, portable firearms. This line also procures various accessories needed to improve or maintain existing weapons.


 and the Back-up Iron Sight.

 Personal Defense Weapon will be the M17 or the M18.

PEs associated with this P-1 line are 0207227F, 0207580F, 0408011F and 0804731F.

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force
Date: February 2018

## Appropriation / Budget Activity / Budget Sub Activity:

3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | M320A1 (40MM GRENADE LAUNCHER) |  |  |  | - 1 - | - /30.800 | - 1 | - /33.606 | - 1 - | - /33.606 |
| P-5 | M4 Carbine ( 5.56 mm ) | P-5a, P-21 | A |  | - / 175.549 | - 13.153 | 1 | - $/ 17.100$ | - 18.500 | - 125.600 |
| P-40a | Modular Handgun System (MHS) |  |  |  | - 1 - | - 1 - | - /16.000 | - 19.000 | - 1 | - 19.000 |
| P-40a | SMALL ARMS Items Less Than \$5M |  |  |  | - 1 - | - 13.506 | - / 12.611 | - 14.796 | - 1 - | - 14.796 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 175.549 | - 137.459 | - 128.611 | - 164.502 | - 18.500 | - 173.002 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:




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## UNCLASSIFIED



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| Exhibit P-5a, Procurement History and Planning: PB 2019 Air Force |  |  |  |  |  |  |  | Date: February 2018 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  | P-1 Line Item Number / Title: 357010 / Small Arms |  |  |  | Item Number / Title [DODIC]: M4 Carbine ( 5.56 mm ) |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| M4A1 CARBINE ( 5.56 mm$)^{(\dagger)}$ |  | 2014 | FN MANUFACTURING I COLUMBIA, SC | MIPR | ARMY/ACC | Oct 2014 | May 2018 | 4,597 | 0.001 | Y |  | Oct 2014 |
| M4A1 CARBINE ( 5.56 mm$)^{(\dagger)}$ |  | 2015 | FN MANUFACTURING I COLUMBIA, SC | MIPR | ARMY/ACC | Oct 2015 | Apr 2019 | 686 | 0.001 | Y |  | Oct 2015 |
| M4A1 CARBINE $(5.56 \mathrm{~mm})^{(\dagger)}$ |  | $2016{ }^{(2)}$ | FN MANUFACTURING / COLIMBIA, SC | MIPR | ARMY/ACC | Aug 2016 | Nov 2016 | 35,020 | 0.001 | Y |  | Aug 2016 |
| M4A1 CARBINE ( 5.56 mm$)^{(\dagger)}$ |  | 2016 | COLT DEFENSE LLC / WEST HARTFORD, CT | MIPR | ARMY/ACC | Aug 2016 | Dec 2017 | 2,707 | 0.001 | Y |  | Aug 2016 |
| M4A1 CARBINE ( 5.56 mm ) |  | 2017 | TBD / TBD | MIPR | ARMY/ACC | Jan 2017 | Jan 2021 | 2,810 | 0.001 | Y |  |  |
| M4A1 CARBINE ( 5.56 mm ) |  | 2019 | TBD/TBD | MIPR | ARMY/ACC | Jan 2019 | Jan 2021 | 24,429 | 0.001 | Y |  |  |
| M4A1 CARBINE ( 5.56 mm ) | $\checkmark$ | 2019 | TBD / TBD | MIPR | ARMY/ACC | Jan 2019 | Jan 2021 | 12,143 | 0.001 | Y |  |  |

${ }^{(t)}$ indicates the presence of a P-21

## Footnotes:

 will be awarded to either FN Manufacturing, Columbia, SC or to Colt, Hartford, CT for FY16-FY18.

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> M4 Carbine ( 5.56 mm ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 357010 / Small Arms |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2016 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2016 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { PKIUR } \\ & \text { TO } 1 \\ & \text { OCT } \\ & 2014 \end{aligned}$ | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \mathrm{ASOF} \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\underset{\mathrm{E}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A <br>  <br> R <br> R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A $\mathbf{P}$ R | M A Y | J N | J | A | S E P |  |
| M4A | Carbin | NE ( 5.56 mm ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2014 | AF | 4.597 | . 000 | 4.597 | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 4.597 |
| 1 | 2015 | AF | . 686 | . 000 | . 686 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | . 686 |
| 2 | 2016 | AF | 35.020 | . 000 | 35.020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 35.020 |
| 3 | 2016 | AF | 2.707 | . 000 | 2.707 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 2.707 |
|  |  |  |  |  |  | O c T | N | D <br>  <br> C <br> c | J A N | $\underset{\mathrm{E}}{\mathrm{F}}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M A Y | J U N | J u L | A | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | $\xrightarrow{\text { M }}$ | J N | J J | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> M4 Carbine ( 5.56 mm ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 357010 / Small Arms |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|} \hline & \mathrm{N} \\ \hline & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } 1 \\ \text { OCT } \\ 2016 \end{gathered}$ | $\begin{gathered} \text { DUL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OC } \end{gathered}$ | $\begin{aligned} & \text { o } \\ & \text { c } \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\underset{\text { u }}{\mathrm{J}}$ | $\begin{aligned} & A \\ & \mathbf{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A $\mathbf{P}$ $\mathbf{R}$ | M A Y | J U | J | A | S E P |  |
| M4A1 | CARBII | NE ( 5.56 mm ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2014 | AF | 4.597 | . 000 | 4.597 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . 271 | 2.000 | 2.000 | . 326 |  | . 000 |
| 1 | 2015 | AF | . 686 | . 000 | . 686 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . 686 |
| 2 | 2016 | AF | 35.020 | . 000 | 35.020 | - | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 1.020 |  |  |  |  |  |  |  |  |  |  | . 000 |
| 3 | 2016 | AF | 2.707 | . 000 | 2.707 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.000 | . 707 |  |  |  |  |  |  |  |  | . 000 |
|  |  |  |  |  |  | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \hline F \\ & E \\ & E \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | F | M A R | A P R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Item Number / Title [DODIC]: <br> M4 Carbine ( 5.56 mm ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 357010 / Small Arms |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & A \\ & \text { N } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | TO 1 <br> OCT <br> OCT | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \mathrm{ASOF} \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \text { o } \\ & \text { c } \\ & \text { T } \end{aligned}$ | N | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | F E B | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A $\mathbf{P}$ R | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P |  |
| M4A | CARBII | NE ( 5.56 mm ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2014 | AF | 4.597 | 4.597 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2015 | AF | . 686 | . 000 | . 686 | - | - | - | - | - | - | . 686 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 2 | 2016 | AF | 35.020 | 35.020 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 3 | 2016 | AF | 2.707 | 2.707 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F | M A R | A <br> P <br> R | M A Y | J U N | J | A | S E P | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M ${ }_{\text {M }}^{\text {M }}$ | J | u | A U G | S |  |

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| Exhibit P-21, Production Schedule: PB 2019 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  |  | P-1 Line Item Number / Title: <br> 357010 / Small Arms |  |  |  |  | Item Number / Title [DODIC]: <br> M4 Carbine ( 5.56 mm ) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  | 1-8-5 For 2019 | MAX For 2019 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2019 |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | FN MANUFACTURING COLUMBIA, SC |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | FN MANUFACTURING COLIMBIA, SC |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | COLT DEFENSE LLC WEST HARTFORD, CT |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## " A " in the Delivery Schedule indicates the Contract Award Date.


 thousand).If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2018 <br> Aggregated Items Title: <br> SMALL ARMS Items Less Than \$5M |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 357010 / Small Arms |  |  |  |  |  |  |  |  |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Prior Years |  |  | FY 2017 |  |  | FY 2018 |  |  | FY 2019 Base |  |  | FY 2019 OCO |  |  | FY 2019 Total |  |  |
|  |  |  | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) |
| SMALL ARMS ITEMS LESS THAN \$5 MILLION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AN/PEQ-15 Laser Designator | A |  | - | - | - | 0.001 | 265 | 0.246 | 0.001 | 100 | 0.090 | 0.001 | 100 | 0.090 | - | - | - | 0.001 | 100 | 0.090 |
| M2A1 (.50 Cal Machine Gun) | A |  | - | - | - | 0.014 | 20 | 0.280 | 0.014 | 10 | 0.140 | 0.014 | 10 | 0.140 | - | - | - | 0.014 | 10 | 0.140 |
| M240B Machinegun (7.62mm) | A |  | - | - | - | 0.008 | 25 | 0.203 | 0.008 | 25 | 0.203 | 0.005 | 15 | 0.073 | - | - | - | 0.005 | 15 | 0.073 |
| Ballistic Sighting Module | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| M249 Automatic Rifle ( 5.56 mm ) | A |  | - | - | - | - | - | - | 0.004 | ${ }^{25}$ | 0.095 | 0.004 | 25 | 0.095 | - | - | - | 0.004 | ${ }^{25}$ | 0.095 |
| M4A1 Carbine <br> ( 5.56 mm - Auto) | A |  | - | - | - | 0.001 | 25 | 0.017 | 0.001 | 25 | 0.017 | 0.001 | 25 | 0.017 | - | - | - | 0.001 | 25 | 0.017 |
| Modular Combat Shotgun (12 Ga) | A |  | - | - | - | 0.001 | 50 | 0.041 | 0.001 | 25 | 0.021 | 0.001 | 25 | 0.021 | - | - | - | 0.001 | 25 | 0.021 |
| M9 Pistol (9mm) | A |  | - | - | - | 0.001 | 500 | 0.340 | - | - | - | - | - | - | - | - | - | - | - |  |
| Glock 19 | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| M134 Mini Gun | A |  | - | - | - | - | - | - | 0.050 | 160 | 8.000 | - | - | - | - | - | - | - | - | - |
| MOD PROJECTS PARTS PROCUREMENT | A |  | - | - | - | - | - | 0.350 | - | - | 0.250 | - | - | 0.250 | - | - | - | - | - | 0.250 |
| FIRST DESTINATION TRANSPORTATION | A |  | - | - | - | - | - | 1.200 | - | - | 1.836 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| PMA- OTHER GOVERNMENT COST | A |  | - | - | - | - | - | 0.080 | - | - | - | - | - | - | - | - | - | - | - | - |
| PMA- CONTRACTOR SERVICES | A |  | - | - | - | - | - | 0.750 | - | - | 1.364 | - | - | 1.200 | - | - | - | - | - | 1.200 |
| PMA-GPC | A |  | - | - | - | - | - | - | - | - | 0.080 | - | - | 0.080 | - | - | - | - | - | 0.080 |
| PMA-TRAVEL | A |  | - | - | - | - | - | - | - | - | 0.080 | - | - | 0.080 | - | - | - | - | - | 0.080 |
| $\begin{aligned} & \hline \text { PMA-RMIS } \\ & \text { CORPORATE TAX } \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | 0.150 | - | - | 0.150 | - | - | - | - | - | 0.150 |
| Hold for Price Adjustments | A |  | - | - | - | - | - | - | - | - | 0.285 | - | - | 0.600 | - | - | - | - | - | 0.600 |
| Subtotal: SMALL ARMS ITEMS LESS THAN $\$ 5$ MILLION |  |  | - | - | - | - | - | 3.506 | - | - | 12.611 | - | - | 4.796 | - | - | - | - | - | 4.796 |
| Total |  |  | - | - | - | - | - | 3.506 | - | - | 12.611 | - | - | 4.796 | - | - | - | - | . | 4.796 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to round <br> Remarks: <br> Unit costs for FY18 are estimates and subject to change. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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